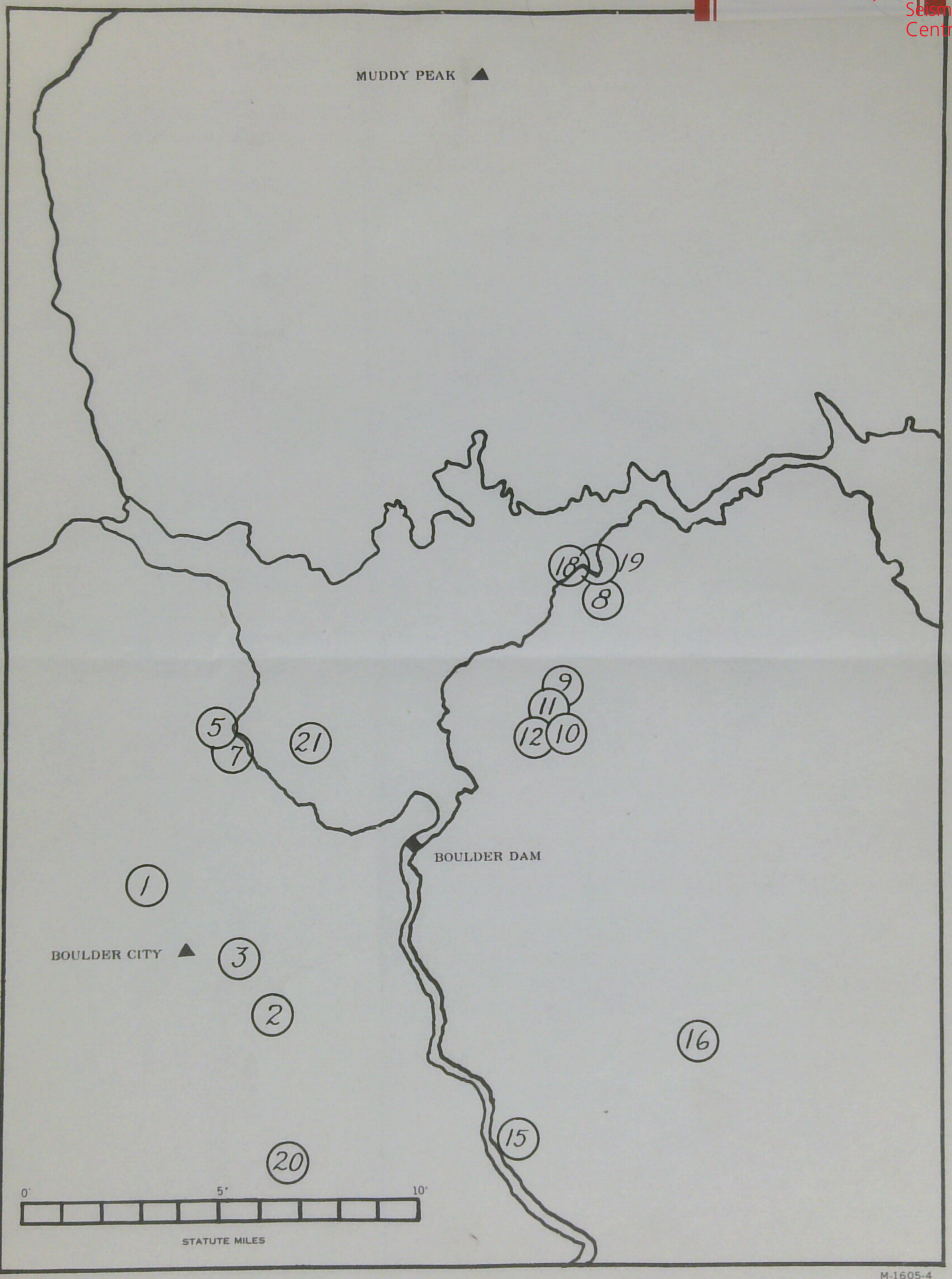
Lake Mead
complete 1943

International
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M-1605-4

TENTATIVE EPICENTERS IN THE LAKE MEAD REGION
JANUARY, FEBRUARY AND MARCH, 1943.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - JANUARY, 1943.

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

3 epicenters were located in the Lake Mead region as follows:

No.	Date Jan.	G.C.T.	Location of Epicenter
1	4	00h 32m 18.9s	1 to 2 miles NW of Boulder City.
2	26	13h 47m 58.6s	3 miles SE of Boulder City.
3	26	14h 01m 13.0s	1 to 2 miles SE of Boulder City.

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

No.	Date Jan.	G.C.T.	Intensity and Description
1	4	00h 32m	III at Boulder City. Building quivered. Felt by few.
	5	06h 20m	III at Boulder City. Slight quiver felt by several.
	11	00h 38m	II at Boulder City. Felt by one.
	22	19h 29m	III at Boulder City. Felt by several.
	24	05h 37m	III at Boulder City and Boulder Dam. Felt as jolt and rumble by several.
	26	13h 48m	II at Boulder City.
	26	14h 01m	IV at Boulder City and Boulder Dam, where it was felt by many. III at Hualapai Lodge. II at Basic City where it was reported by one.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1943

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	e?	22	25	03.7					eP	22	25	27.5					eP	22	25	21.5				
	eP			19.3					iS		26	09.5					i			34.7				
	iP			25.9													i		26	26				
	iS		26	05.5																				
	iS			08.9	Regional shock																			
2	iP	14	12	03.8	-	+4	+5	-	e	14	12	12.5					eP	14	12	11.0				
	i			12.3	-	-24	-58	-	eP			13.5					iP			34.0				
	iS			48.0	-	120	-	-	i			24.3					iS		13	04.0				
	Regional shock								iS		14	10.1												
1 4	iP	00	32	20.4		-240		-740	iP	00	32	31.5		+4	+3	-	e	00	32	32.9		+1		
	iST			21.4				-735	iS			39.0					iP	00	32	33.1			+2	
	0			18.9					iS			39.8		-42	-26		iP			33.9				
					Δ = 5½ mi					Δ = 43½ mi.			B.D.Δ = 8 mi				eS			41.5				
	Moderate local shock felt in Boulder City. Epicenter 1 to 2 mi NW of Boulder City																iS			42.2		+58		
																	iS			42.7			145	
																		Δ = 447 mi						
4	iP	06	21	19.7		-12	-8	+15	no								e?	06	21	33.8				
	iS			20.6		+50	-73	+40									i			35.1				
	Small local shock, Δ = 5 mi																iS			41.0				
5	iP	06	20	22.5		-10	-7	+20	no															
	iS			23.3				110																
	Small local shock, Δ = 4 mi. Felt in Boulder City.																							
7	iP	21	16	55													eP	21	17	00.5				
	iS			58													iS			06.8				
	Very small local shock, Δ = 16 mi.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1943

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
8	e	00 25 06											e	00 25 06				
	eP	09.5											eS	26 01				
	iS	50.5																
	Regional shock																	
8	iP	17 01 47.4		+14	+7	+18							no					
	iS	48.7		40	50													
	Δ = 8 mi																	
	Small local shock																	
8	eP	20 10 37					eP	20 10 37					iP	20 10 40.5				
	Distant earthquake																	
9	iP	01 29 51.1		+8	+27	-27	no						iS	01 30 11.2				
	iS	52.1		48	52									Δ = 45 mi				
	0	49.5																
	Δ = 5½ mi																	
	Small local shock																	
9	iP	12 28 33.0		+8	+8	-8							no					
	iS	34.3		28	20													
9							eS	13 48 34					e	13 47 29.5				
													eS	48 22				
	Regional shock																	
														May have been felt in Cedar City, Utah				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 194 3

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
10	eP	09	53	48.5		+5	-10	-2
	Distant earthquake							
10	eP	15	30	41				
	e			57.5				
	eS		38	31				
	Distant earthquake. Small local felt in Boulder City.							
11	iP	00	57	57.2		-11		-75
	iS			58.0		80	80	-40
11	eP	18	36	12.0			-3	
	iS			21.7			95	
	Small local shock.							
13	iP	09	19	35.0		+2	+6	-4
	eS			50.2				
	iS			52.8				
	Regional shock, Δ = 75 mi. Lat 37° N, Long 115° W.							
14	no							
15	iP	11	53	47		+9	+10	-13
	iS			48.2		-34	-60	+17
	Small local shock, Δ = 6 mi							
15	eP	20	49	40.3			+3	
	iS			42.6			+11	
	Very small local shock, Δ = 12 mi							
16	e	11	50	52.7				
	iP	11	50	55.7		+4	+8	+7
	i			58.8				
	eS		51	24.0				
	iS			26.4				
	Regional shock, Δ = 150 mi. Little San Bernardino Mts.?							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	09	53	53.5		0	-5	+3
eS	10	01	15				
eP	15	31	01				
eS		38	40				
iS		39	20				
Regional shock.							
-							
Regional shock							
-							
no							
no							
eP	11	50	48.0				
iP			49.5				
iS		51	22.0				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	09	53	57				
eS		38	26				
eP	15	30	55				
eS		38	26				
e	17	21	47				
iS		22	00.5				
eS	18	36	34				
eP	09	20	37.5				
iP	09	20	38.4			-5	+8 -15
iS			53.0	Δ = 86 mi			
eP	23	36	40	Δ = 150 mi			
iS			59.5	Regional shock.			
no							
no							
eP	11	50	48.0				
iP			49.5				
iS		51	22.0				

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1943

Time used is G.C.T.

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
19	iP	17	49	49.3		-3	+6	+5																
	iS			50.4		-63	+32	+14																
	Small local shock, Δ = 5½ mi																							
19	eP	22	54	17.8		-3	+4																	
	iP			18.8			+13																	
	iS			19.3		-30	+27																	
	Very small local shock, Δ = 8 mi																							
19	iP	22	54	43.9																				
	iS			44.9		40																		
	Very small shock, Δ = 5 mi?																							
20	e	04	40	49													e	04	40	30.5	Seismic waves			
21	eP	11	17	53.8																				
	iP			54.3																				
	iS			55.2			+43																	
	Very small local shock, Δ = 7½ mi																							
22	iP	19	28	58.8				-2	e	19	29	11.9					eP	19	29	09.7				
	iS		28	59.7				140	iS			18.4					iP			10.8				
	O		28	57.4	Δ = 5 mi											Δ = 43½ mi	iS			16.4				
	Light local shock, not recorded at Boulder Dam.																iS			18.3	Δ = 43½ mi			
	Felt by several in Boulder City.																							
	Epicenter uncertain due to faint lines at Boulder City, probably five miles SE of Boulder City.																							
23	iP	04	58	48.5		-5	-7										no							
	iS			50.7			+30																	
	Very small local shock, Δ = 11 mi																							
23	e	16	54	47					no															
	eS			57																				
	iS			59			20																	
24	iP	05	37	02.6		-38	+18		eP	05	37	13.6					iP?	05	37	13.9				
	iS			03.5			-140		iP			15.2					iS			23.2	Δ = 46½ mi			
	m			06		270			iS			21.5	Δ = 42½ mi				Boulder Dam Δ May 6, 5 mi							
	O			00.9	Δ = 6 mi				Felt by several at Boulder City and Boulder Dam.															

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1943

Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24		BOULDER CITY	eP	20	48	02.0	1.8	-6	+6	
			iP			13.1	1.0	+47	-20	
			Distant earthquake. S.S.C. & G.S. provision epicenter 15° S Lat., 91° W Long. O + 20h 42.1m							
		OVERTON	eP	20	48	04.0	2.1	+6	-6	
			iP			16.1	1.2	+26		
			eS		57	38				
		PIERCE FERRY	eP	20	47	58.3	2.0	+7	-5	
			iP		48	11.0				
			iS		57	50				
25		PIERCE FERRY	e	06	46	11	Seismic waves			
25		BOULDER CITY	eP	22	53	56.1		+3	-3	
			iS			58.4		+20	+32	no
			O			52.7				
			Very small local shock (0.7) Δ = 12 mi. Epicenter may be 12 mi SE of Boulder City.							
		OVERTON	no							
		PIERCE FERRY	iS	22	54	11.2	Δ = 38½ mi			
25		PIERCE FERRY	e	23	57	42	Seismic waves			
2	26	BOULDER CITY	iP	13	48	00.4		-55	+175	+33
			iS			01.6		460	500	180
			O		47	58.6	Δ = 6½ mi			
			Boulder Dam Δ = 4½? mi							
			Light local shock (12.5)							
			Epicenter three miles SE of Boulder City. Felt in Boulder City.							
		OVERTON	e	13	48	11.7		-1	+5	
			eP			11.9				
			iS			20.5		-20	+9	
			i			21.1				
			Δ = 45½ mi							
		PIERCE FERRY	iP	13	48	11.8		+4	+3	+5
			i			13.0				
			iS			20.8		+28	+62	+24
			i			21.5				
			Δ = 46½ mi							
3	26	BOULDER CITY	eP	14	01	14.2		dis	-308	
			iS				700+		600+	
			O			13.0	Δ = 4½ mi			
			Moderate (37.5) local shock. Epicenter one to two miles SE of Boulder City. Felt by many at Boulder City and Boulder Dam and Hualapai Lodge. Probably felt at Basic Townsite							
		OVERTON	eP	14	01	25.7		-5	-12	
			iP			26.1				
			iS			34.1		+36	-115	
			i			35.0				
			Δ = 44 mi							
		PIERCE FERRY	iP	14	01	26.2		-28	-9	-45
			i			27.2				
			iS			35.4		+210	-155	
			i			36.9	Δ = 46½ mi			
			Boulder Dam							
			iP?	14	01	14.2	Out of focus			
			iS?			15.0	Δ = 4½ mi			
	26	BOULDER CITY	e	15	42	44.5				
			e			54.0	Seismic waves			
		PIERCE FERRY	eP	15	40	10				
			eS		42	45				

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1943

Time used is G.C.T.

International Seismological Centre

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	26	e	23	42	52				
		eP		43	11				
		eS		43	54	Regional shock			
	27	eP	02	41	32.0				
		iS			34.0			30	
		Very small local shock. Δ = 10½ mi							
	27	eP	02	53	51				
		eS	03	01	38	Distant earthquake.			
		U.S.C. & G.S. provisional epicenter 52° N Lat., 180° W Long.							
		O = 2h 45.2s							
	27	e	03	05	45	Seismic waves			
	27	e		16	12	Seismic waves			
	27								
	27	iP	09	24	26.6		-8	+11	
		iS			27.5			100	
	29	e	13	43	00.0				
		iS			07.9	Δ = 41½ mi			
		Epicenter seven miles West of Pierce Ferry in Greggs Basin.							
	29	iP	16	21	04.6		-6	-15	+20
		iS			05.6		-150	+65	-32
		O			03.1	Δ = 5½ mi			
		Small local shock.							
	29	eS	18	34	36				
		Local to regional shock							
	30	e?	20	21	00				

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
4	29	eS?	13	43	03.9	Δ = 33 mi			
		eS			04.8	Δ = 35 mi			
		no							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		eP	23	43	24				
		eP			26.5				
		eS		44	05.5				
		i			08				
		no							
		eP	02	53	54				
		i		54	03				
		eS?	03	00	44				
		eS		01	03				
		e	03	05	54.5				
		e	03	16	18				
		e	04	53	10	Seismic waves			
		eS	09	24	48.0				
		iP	13	42	50.6		-90	-13	-180
		iS			52.3		500	600	
		O			48.0	Δ = 9 mi			
		e	16	21	16.0				
		eS			24.3				
		e			29.8	Δ = 46½ mi			
		e	18	34	39.5				
		iS			47.0				
		e	20	20	10	Regional? shock			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1943

Time used is G.C.T.

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
30	BOULDER CITY.	eP	05	41	51.5		+6	-8	-5
		Distant earthquake. U.S.C. & G.S. epicenter 2.0° S Lat., 80.0° W Long. O + 5h 33.0m							
31		eP	08	34	27		+6	-4	
		iP			48.5				
		eS?		43	00				
	OVERTON	e	05	41	54				
		Distant earthquake							
		e	08	34	33				
		Distant earthquake							
	PIERCE FERRY	eP	05	41	39.5		+13	+9	-33
		e	08	34	24				
		iP		35	02				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - FEBRUARY, 1943.

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

10 epicenters have been located as follows:

No.	Date Feb.	G.C.T.	Location of Epicenter
5	3	10h 00m 30.0s	5½ mi NW of Boulder Dam near the boat docks.
6	4	16h 26m 56.5s	A few miles South to West of Arden.
7	7	04h 06m 26.1s	5 mi NW of Boulder Dam near the boat docks.
8	8	16h 17m 01.1s	8 mi NE of Boulder Dam near lake shore N of Fortification Hill.
9	10	09h 20m 14.3s	6 mi NE of Boulder Dam on N slope of Fortification Hill.
10	19	13h 51m 00.3s	4½ mi NE of Boulder Dam on E side of Fortification Hill.
11	21	02h 53m 30.8s	4½ mi NE of Boulder Dam under Fortification Hill. Focal depth about 9 mi.
12	23	22h 17m 53.0s	4 mi NE of Boulder Dam under Fortification Hill. Focal depth about 7 mi.
13	24	11h 54m 52.7s	10 to 15 mi NW of Las Vegas.
14	26	08h 01m 51.8s	About 50 mi S of Boulder City near Dead Mtn.

The following shocks were reported as felt at Boulder City. (Roman numerals are intensity grades as estimated by the modified Mercalli Scale of 1931.)

No.	Date Feb.	G.C.T.	Intensity and Description
5	3	10h 00m 30s	IV at Boulder City. Reported felt by several. Felt and sounded like report from large gun or explosion. Rattled objects on piano. Awakened many. Damage none. Frightened no one. Duration longer than usual local shocks. Not reported felt at Boat Docks.
	6	01h 29m 40s	III at Boulder City. Reported felt by 1. No noise; shaking only.
7	7	04h 06m 27s	II at Boulder City. Earthnoise only.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 1943

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
1		no																iP	17	49	17.7		-15	+16	-30
																		iS			19.8		-50	+44	
2		no																eP	00	24	45				
																		eS		25	29	Regional shock			
2		e	07	24	17					eP	07	24	06					eP	07	24	07.5				
																		iP			09.3				
																		iS			53.2	Regional shock			
2		no																e	07	41	52				
																		e		42	36	Regional shock			
2		no																iP	23	57	45.2			-9	+5
																		iS		58	28.6				
5	3	iP	10	00	31.6		-5			no								iP	10	00	43.2				
		iS			32.7	T = 20 min.												iS			52.0				
		0			30.0						Boulder Dam							iS			52.3		+65	+75	-30
		Moderate local shock, Δ = 5½ mi.								iS	10	00	32.6	Δ = 5½ mi.					Δ = 46½ mi.						
		Felt by several at Boulder City.																							
		Epicenter near Boat Docks 5½ mi.																							
		NE of Boulder Dam.																							
6	4	iP	16	27	03.9		+3	-5		i	16	27	10.4					eP	16	27	17.4				
		i			04.3					iP			15.0					iP			17.9				
		i			08.4					i			19.1					iP			18.7				
		iS			08.9					iS			26.7	Δ = 60 mi.				iS			31.5				
		i			09.1		22	45										i			33.8				
		0		26	56.5	Δ = 26 mi.												iS			36.0				
		Very small local shock - Epicenter 3 mi. West of Arden.																	Δ = 72.5 mi.						
	4	e	21	23	51					e?	21	23	35					iP	21	24	04				
		eS		24	30					e		24	06					i		24	52				
																		Probably regional shock.							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 194 3

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Day Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	e?	02	57	45.7					e	02	57	42.5					e?	02	57	48.2				
	eP			52.4					iS			58.4	Δ = 82 mi.				iS		58	06.0	Δ = 92 mi.			
	eS		58	15.6	Δ = 115 mi.																			
	Regional shock. Epicenter 80 mi. NE of Overton																							
5	e	03	53	50					e	03	53	59					iP	03	53	54				
	eS		55	31	Regional shock				eS		55	48												
5	e	04	26	29					no								eP	04	26	41				
	eS		27	34	Regional shock.												iS		27	24	Regional			
5	e	19	09	09.6					e	19	09	12.2					e	19	09	06				
	iP			13.7					eP			17.6					eS		10	02				
	iS			51.4					eS		10	11.7												
	iS			57.1																				
6	iP	01	29	40.3	0.13	-4	+17		no								no							
	iS			41.1			-83																	
	Small local shock, Δ = 4 mi. Felt in Boulder City.																							
6	e	02	31	42.7					e	02	31	33.7					eP	02	31	32.2				
	eS		32	03.7					eS			49.1					iS			46.4	Δ = 74 mi.			
	0		31	11.0	Δ = 108 mi.				iS			49.8	Δ = 79 mi.											
	Regional shock. Probable epicenter in vicinity of St. George, Utah.																							
6	eP?	02	56	09					e?	02	55	53.4					eP	02	56	03.1				
	eS			30.6					eP			58.1					iP			03.8				
	0 =		55	32	Δ = 122 mi.				iS		56	12.4	Δ = 84 mi.				iS			21.0		+10	-16	+13
	Regional shock. Probable epicenter in vicinity of Enterprise, Utah.																iS			22.1			55	
																					Δ = 102 mi.			
6	e	08	48	39					e	08	48	30.4					e	08	48	36.6				
	e		49	41					eS		49	48.3					eP			44.6				
	iS			45													iS		50	01.0				
	Regional shock.																iS			06.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 194 3

Time used is G.C.T.

BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	6	e	08	53	37.7				
		e		54	33.3				
		is			39.0				
		Regional shock.							
	6	eP	09	46	48.5				
		Distant earthquake							
	6	no							
	7	eP	00	13	43				
7	7	iP	04	06	27.4		+12	+18	
		is			28.3		205	230	
		0			26.1	Δ = 5 mi.			
		Small local shock. Felt in Boulder City. Epicenter S of S, near Boat Docks.							
	7	e	04	37	16				
	7	e	05	38	13				
8	8	iP	16	17	05.5	0.35	+21	+20	
		is			08.5	0.30	-34	+135	
		i			08.7		-155		
		0			01.1	Δ = 15½ mi.			
		Small local shock, 8 mi. NE of Boulder Dam.							
9	10	iP	09	20	21.5		+18	+22	
		is			24.3		-45	+30	
		0			17.3	Δ = 14½ mi.			
		Very small local shock, 7 mi. NE of Boulder Dam.							
	10	eP	23	03	56.8				
		is		04	14.4				
		0		03	30.6	Δ = 91 mi.			
		Epicenter Antigrunt Valley or Spotted Range near 37° N, 116° W.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	08	53	39				
no							
e	15	56	24.7				
is			26.5	Δ = 9½ mi.			
e	04	06	45.3				
				Δ = 40 mi.			
e	04	37	22				
e	05	38	58				
iP	16	17	10.4				
i			12.1				
is			16.9				
i			18.9	Δ = 33 mi.			
eP	09	20	27.8				
i			33.0				
is			34.6	Δ = 36 mi.			
e	23	03	56.7				
es		04	13.7				
is			17.5	Δ = 89½ mi.			

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	08	53	29.5				
eP			50.6				
is		54	54.6				
is		55	10.2				
eP	09	47	00				
no							
eP	00	13	46.5				
eP	04	06	39.5				
is			48.3	Δ = 46 mi.			
e	04	37	19.5				
e	05	38	46				
eP	16	17	11.5				
iP			11.9				
i			18.0				
is			18.7	Δ = 37 mi.			
eP	09	20	28.6				
is			36.0	Δ = 39 mi.			
e	23	04	04.6				
is			26.7	Δ = 116 mi.			

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 1943

Time used is G.C.T.

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	e?	00	58	26.9	Δ = 40½ mi.				no								iP	00	58	09.5				
	Very small local shock, probably in Gregg Basin, a mile or two South of 4.																iP			09.7				
																	iS			10.9				
																	i			11.2	Δ = 7 mi.			
																	0			07.4				
11	e	12	49	04.5					e	12	49	00.2					eP	12	48	51.1				
	i			05.7					eS		49	30.0					iP			51.8				
	eS			36.6	Δ = 160 mi.												i		49	14.6				
	Regional shock.																iS			15.6	Δ = 115 mi.			
11	e	13	55	05					e	13	55	20					e	13	55	18.9				
	eS		55	43	Δ = 200 mi.				eS		56	05.5	Δ = 245 mi.				iS		56	03.2	Δ = 240 mi.			
	Regional shock.																							
11	no.									Distant earthquake							e	15	39	00.6				
12	no																e	05	45	10				
																	iS		46	04	Regional shock			
15	e?	01	09	41.0					e	01	09	53.5					iP	01	09	58.0		+1	-5	
	e			56.3					e			54.4					iP			59.3				
	eS		10	05.7	9				iS		10	03.3	20	20	20		iS		10	12.2			60	
					Δ = 60 mi.								Δ = 54½ mi.				i			13.4				
	Very small local shock. Epicenter NW of Overton																0		09	37	Δ = 73 mi.			
16	iP	07	39	05.1					eP	07	39	06.9					iP	07	39	01.8				
	Distant earthquake								iP			10.5												
	eP	14	51	14.9					e	14	51	17					eP	14	51	16				
	Distant earthquake																iP			22.1				
16	e	17	04	33.5	Seismic waves												e	17	04	03				
																	eP			08				
17	e	00	40	09					eP	00	40	13.0					eP	00	40	05.0				
	eS		46	06	Distant earthquake				eS		46	12					eS		46	03.0				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 1945

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	e	02	11	37																				
	eS		17	25	Distant earthquake																			
17	eS	05	53	51			7		no								eP	05	53	30.7				
	Regional shock.																eS		54	08.7			20	
17	e	10	54	18.5					e	10	54	31.0					e	10	54	21.0				
	eS		59	51					eS		55	11.6					eS		55	02.8				
	Regional shock.																							
17	no								e	11	38	20.5					e	11	38	10.2				
	Regional shock								eS		40	00					eP			11.3				
													Δ = 600 mi.?				e			17.7				
																	eS		39	41.0			12	
																					Δ = 540 mi.?			
17	eP	15	15	07.2													e	15	15	14.6				
	eS			41.7													eP			15.8				
	Regional shock.																iS			55.5				
17	e	23	45	16					e	23	45	21					e	23	45	22.5				
	iS			53	Δ = 180 mi.				iS			49	Δ = 170 mi.				iS		46	03.5	Δ = 200 mi.			
	Regional shock, near 36° N Lat., 117° W Long.																							
18	no								iP	00	33	58.3		-8	-7	-12	no							
									iP			58.6												
									i		34	01.9												
									iS			03.0												
									iS			04.0		140	210	130								
									Local disturbance. Δ = 23? mi.															
18	no.								e	05	37	19												
									eS		38	47	Regional shock											
18	i	14	54	28	Seismic waves				e?	14	54	00												
									iS			35												
									i			46												

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 194[illegible]

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
	18	e	19	17	04.5					e	19	17	10												
		eS			56.5					eS			56												
		Regional shock																							
	19	no								iP	01	04	22.3												
										i			22.8												
										i			24.4		180										
										Local disturbance.															
	19	no								e	01	07	03					eP	01	07	03				
										eS		08	23					eS		08	09.5				
										Regional shock								iS			13.5				
	19									e	08	39	12		Seismic waves										
	19	e	08	49	32					e	08	49	44												
		eS		50	12	Regional shock				eS		50	30												
10	19	iP	13	51	03.7		+13	+12		e	13	51	10.6					eP	13	51	11.0				
		iS			06.0		50	40		iS			17.7					e			12.5				
		0			00.3	Δ = 12 mi.								Δ = 36 mi.				iS			18.5	Δ = 38 mi.			
		Small local swarm type shock. Epicenter east side of Fortification Hill, 4½ mi. NE of Boulder Dam. Focal depth 6 mi.																							
	20	iP	22	20	20.4			+30										iS	22	20	40.5				
		iS			21.5			154														Δ = 40 mi			
		0			18.7	Δ = 6 mi.																			
		Small local shock.																							
	21	eP	00	13	17.0					e	00	13	20					iP	00	13	15.5				
		eS?		20	05	Distant earthquake												eS		20	23	Δ = 3300 mi.			
11	21	iP	02	53	30.8		+10	+8		eP	02	53	37.1					iP	02	53	38.2		-2	+3	-9
		iS			33.5		+40	+50		iS			44.1		+15	-40		i			38.7				
		m			34		80	80						Δ = 36 mi.				iS?			44.9		-9	+17	
		0			26.7	Δ = 14 mi.												iS			45.6		43	60	
		Small local shock, under Fortification Hill, depth = 11 mi.																				Δ = 39 mi.			

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 194 3 T.

Time used is G.C.T.

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
21									e	19	29	33												
22	iP	09	25	42.5		-14	+30		eP	09	25	36	2.2	-35			eP	09	25	37.5			-22	
	iL		32	27.0					eS		31	49					iS		31	51.5				
					Δ = 1520 mi.				iS		32	07												
	Distant earthquake. U.S.C. & G.S. provisional epicenter 17.6° N Lat, 101.3° W Long. O = 9h 20.8 m. Destructive in Southern Mexico.																							
22	eP	10	17	11					eP	10	17	13					eP	10	17	05				
	eS		23	45					eS		24	07					eS		23	47				
	Distant earthquake.																							
22	eP	10	59	45					eP	10	59	50					eP	10	59	41				
	eS	11	06	27					eS	11	06	39					eS		06	17				
	Distant earthquake																							
22	e?	14	21	54.2					e?	14	21	34.2					e	14	21	31.8				
	eP			56.0					eP			42.9					eP			45.4				
	iS		23	05.4		47	42		eS		22	42.6					eS		22	47.5				
	Regional shock. Δ = 340 mi. = 4.9°								iS			45.4		515	360	220	iS			49.3		140	125	115
	Earthquake felt in Jordan Valley, including Salt Lake City, Utah.													Δ = 306 mi = 4.4°								Δ = 313 mi = 4.5°		
22	eP	17	12	52					eP	17	12	56					eP	17	12	48.7				
	eS		19	39					eS		19	49					eS		19	22				
	Distant earthquake																							
23	e	09	22	13.6					eP	09	22	23.0					eP	09	22	20.6				
	e			26.7					iP			27.4					iP			21.6				
	eS		23	13.2					i			39.6					iS		23	30.4				
	Regional shock, Δ = 293 mi.								eS		23	32.8										Δ = 320 mi?		
									iS			33.8		Δ = 325 mi										
23	iP	09	39	54.2				-11	no								no							
	iS			55.5		40																		
	Very small local shock, Δ = 7½ mi.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 194 3

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
	23	iP	22	17	56.4		+8	+11	-12	e	22	18	03.6					e	22	18	04.3				
		iS			58.7		42	48	29	i			05.9					iS			11.8				30
		0			52.7					e			10.3									Δ = 39 mi.			
						Δ = 12 mi.				iS			10.8	Δ = 37 mi.											
		Very small swarm type shock, under Fortification Hill, depth = 9 mi.																							
	23	eP	22	59	13	Distant earthquake				e	22	59	23					e	22	59	07				
	24									e	01	24	31.3					iP	01	24	28.2				
										eS			57.0					iS			52.3	Δ = 120 mi.			
	24	eP	01	59	33.5					i	01	59	54					eP	01	59	33.3				
		eS	02	00	13.5					iS	02	00	37.9	Δ = 295 mi.				i			48.2				
		iS			17.4	Δ = 250 mi.												eS	02	00	23.2				
		Regional shock.																iS			31.4	Δ = 280 mi.			
	24	eP	04	29	01					eP	04	29	05.5					eP	04	28	58.5				
		eS		35	52	Distant earthquake				eS		34	58.5					eS		35	47				
	24	eP	11	22	21					eP	11	22	12					eP	11	22	34.5				
		Distant earthquake																							
13	24	eP	11	55	03.7					eP	11	55	08.1					iP	11	55	14.1		-2	-2	+5
		iS			11.2		14	9	6	iS			19.4					iP			15.6				
		0		54	52.7									Δ = 55½ mi.				iS			28.5				
						Δ = 37½ mi.												iS			29.8		32	53	
		Very small local shocks epicenter 10 to 15 mi. Northwest of Las Vegas. (N.A. 0.1 mm.mag. = 1.7)																				Δ = 75 mi.			
	25	e	05	18	03	Seismic waves				eT	05	18	04.5					e	05	18	04.5				
	25	eP	06	20	39					e	06	20	30					e	06	20	34				
		e		21	18					e		21	20					eP			37				
		iS			24.5			13		eS		21	41					eS		21	29				
		Regional shock.																iS			33				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF [illegible] 194

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
	25	e	08	25	39.7					e	08	25	48.5					1P	08	25	47.3	0.10	+3	-5	
		1P			41.4		-36	-27	-48	1P			52.0					1P			54.0		-12	+20	
		1S		26	06.3		145	160	58	1S		26	26.1		120			e		26	20.0				
		Regional shock																1S			28.2	0.62	+62	-162	
																		1M			31	0.64	170	203	
	25	eP	20	29	13													eP	20	29	27				
		eS			48													eS		30	08				
		Regional shock																							
	25																	e	22	18	45	Seismic waves			
	26																	e	01	43	42.7				
																		eS		44	17.6	Regional shock			
	26	eP	02	02	40													e	02	02	52				
		eS		03	14													eS		03	33				
		Regional shock																							
	28	e	07	36	39					e	07	36	52					e	07	36	37				
		1S		37	23					eP		37	00.7					1S		37	35				
		Regional shock								eS			42.5												
										1S			44.5												
14	28	e	08	02	06.1					e	08	02	11.5					e	08	02	11.3				
		eS			15.3			3	3	eP			15.1					eP			12.0				
		e			18.3					1P			16.2					eS			24.5				
		0		01	51.8		Δ = 50 mi.			eS			32.3					1S			25.0	Δ = 68 mi.			
		Very small local shock,								1S			35.0		Δ = 86½ mi.										
		epicenter near Dead Mt. 50 mi.																							
		South (Mag. 1.9)																							
	28	e	08	03	11													1S	08	03	03	Second shock			
																		1S			33	Third shock			
	28	e	13	12	38					eP	13	08	41.5					eP	13	08	37.5				
		Seismic waves - Distant earthquake								1S		13	00.7					eS		12	54				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - MARCH, 1943.

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

7 epicenters were located as follows:

No.	Date Mar.	G.C.T.	Location of Epicenter
15	6	05h 58m 21.0s	E side of Colorado River 7½ mi. SSE of Boulder Dam.
16	7	20h 02m 01.4s	8½ mi. SE of Boulder Dam in Black Mountains.
17	11	14h 44m 10.8s	11 mi. N of Pierce Ferry on W side of Grand Wash.
18	11	19h 48m 50.6s	8 mi NE of Boulder Dam on Lake Shore. Depth of focus 7 mi.
19	12	20h 02m 46.1s	8 mi NE of Boulder Dam about 1/2 mi. W of No. 18.
20	12	23h 00m 58.0s	5 mi SE of Boulder City.
21	27	23h 12m 24.9s	4 mi NW of Boulder Dam in Lake Mead basin.

The following shocks were reported felt at Boulder City and Boulder Dam. (Roman numerals are intensity grades as estimated by the modified Mercalli Scale of 1931.)

No.	Date Mar.	G.C.T.	Intensity and Description
	2	11h 05m	Reported at Boulder Dam Powerhouse as short sharp shock. Not verified on seismogram.
19	12	20h 02m 50s	II at Boulder Dam.
	13	05h 03m 12s	II or III at Boulder City. Largely earthnoise.
	18	17h 14m 41.05s	Blast at 3 Kids Mine 8 mi NNW of Boulder City
	23	04h 20m 46s	III to IV at Boulder City. Felt by several. Rattled doors and shutters.
21	27	23h 12m 26s	II at Boulder City. Reported felt by one as momentary shock.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 194 3

Time used is E.C.T.

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
2	e	23	37	40				
	iS		38	10	Δ = 155 mi.			
	Regional shock							
3	no							
	Regional shock							
3	e	07	29	49.5				
	iP			55.8				
	iS		30	29.5			35	
	Regional shock							
3	eP	10	51	03.9				
	eS			36.5				
	Regional shock							
3	e	13	06	17.5				
	e			24				
	eS			58			16	
	Regional shock.				Δ= 210 mi.			
3	no							
4	e	06	26	57.0				
	eS		27	53.3				
	Regional shock,				Δ = 310 mi.			
4	e	07	53	34.7				
	eS		54	18.4			9	
	Regional shock,				Δ = 210 mi.			

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	no							
	iS	23	38	01				
	eP	07	29	58.8				
	iP		30	07.8				
	eS			48.0				
	iS			50.5		65		
	eP	10	50	47.0				
	eS		51	27.7				
	iS			32.4				
	e	13	06	05.5				
	iP			10.0				
	e			47.4				
	iS			49		22		
	Δ = 185 mi. NW of Overton							
	no							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	eP	23	37	28.5				
	iP			28.9				
	iS			51.2			-120	
	Δ = 115 mi.							
	iP	00	39	40.5				
	iS		40	27.8	Δ = 270 mi.			
	eP	07	29	56.1			-6	
	iS			41.2			85	
	eP	10	51	05.7				
	iP			13.0				
	iS		51	55				
	iP	13	06	26.8	Δ = 225 mi.			
	iS		07	10.0			35	
	iP	19	51	40.1		-9	+12	-60
	iS			42.7		-55	-75	
	Small local shock, Δ = 13 mi NW							
	e	06	26	55.5				
	eP		27	04.7				
	iS			41.4				
	iS			57.7				
	e	07	53	44.6				
	eP			54.5				
	eS		54	37.2				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

Day	Date	Station	Phase	Time h	Time m	Time s	Period T	Trace Amplitude E	Trace Amplitude N	Trace Amplitude Z
	4	BOULDER CITY	e	22	55	01				
			eP			06				
			eS			41				
	5		eP	00	39	42				
			eS		47	11				
	5		no							
			Regional shock							
	5		no							
			Regional shock							
	5		e	13	52	10				
			eP			12				
			eS			45				
			iS			53		22	14	
	6		iP	02	59	01.8		+4	+7	-8
			iS			04.0		-30	-60	-25
			Small local shock, Δ = 11½ mi.							
15	6		e	05	58	26.9				
			iP			27.0				
			eS			30.0				
			iS			31.2		14	15	12
			Very small local? shock, Δ = 16 mi. Epicenter east side of Colorado River 7½ mi. SSE of Boulder Dam.							
	6		no							
		OVERTON	iP	22	55	09				
			iS			47				
			Regional shock							
			e	00	39	43				
			eP			45				
			e		46	14				
			M		55		9	40		
			Distant earthquake							
			e	07	52	06.4				
			eS			50.1				
			e	13	52	08.7				
			eP			15.4				
			iS			51.5		90		
			Regional shock							
			no							
			e	05	58	43.6				
			Δ = 46? mi.							
			e	07	59	26				
			iS	08	00	15				
			Regional shock							
		PIERCE FERRY	e	22	55	09.0				
			eP			12.6				
			iP			18.5				
			iS			58.7				
			iS		56	03.9				
			eP	00	39	38.5				
			e	04	56	01				
			eS			42				
			e	07	52	08				
			eP			10				
			eS			52				
			e	13	52	13				
			eS		53	02				
			no							
			iS	05	58	41.4				
			Δ = 41½ mi.							
			e	07	59	30				
			eS	08	00	30				

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Time used is G.C.T.

C 3-4

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 Amplit E	N
6	eS	13	00	59					e	12	59	15					e	12	59	10			
									eS	13	00	47					iS	13	00	28		
									iS			56										
									Regional shock													
6	iP	20	15	01.5	0.74	+7	+31	-12	iP	20	14	51.3		-5	+40	-600	iP	20	14	57.0		+11	-39
	iS			23.4	0.46	+44	+34	+26	iS		15	03.6		980	940	520	iS		15	14.5		1300	1190
	M			25		167	190	96	0		14	32.1	Δ = 65½ mi								Δ = 90½ mi		
	Regional shock, Δ = 112 mi. Epicenter 10 mi SE of Joseco - (Magnit. 3.7)																						
6	e	20	35	10.0					e	20	35	29.7					e	20	35	12.5			
	eS	20	36	00.3					eS		36	19.3					e	20	35	18.0			
	Regional shock																e		35	31.8			
																	eS	20	36	24.0	Δ = 415 mi.?		
7	eP	03	11	22.8					eP	03	11	22.3					eP	03	11	14.9		-4	+8
	Distant earthquake. U.S.C. & G.S. epicenter 57° N Lat., 164° E Long.																						
16 7	iP	20	02	05.5		+7	-3	-5	e	20	02	13.0					iP	20	02	11.7			
	iS			08.3		+20	+35		e			13.6					iS			18.8	Δ = 36½ mi.		
	O			01.4					iS			21.7											
	Very small local shock, Δ = 14½ mi.								i			22.2	Δ = 42½ mi.										
	Epicenter in Black Mts. 8½ mi. SE of Boulder Dam.																						
7	e	20	57	34.3					eP	20	57	19.5					eP	20	57	31.0			
	eP			37.3					eP			24.5					iP			36.7			
	eS		58	18.4					eS			04					iP			48.0			
	iS			23.9					iS		58	16					eS		58	22.8			
	Regional shock, Δ = 210 mi.																iS			32.0			
8	e	09	33	14	Seismic waves				eP	09	33	24.5					e	09	33	42			
	Distant earthquake								e		37	33					eS		38	06			
									eS		37	45											
8	no Regional shock																eP	09	57	39.2			
																	iS			58.4			

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

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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
8	no	Regional shock							e	12	56	58.4					e	12	57	06.6				
									eS		57	55.6					eS		58	01.4				
8	e?	14	10	28.2					e	14	10	17.3					eP	14	10	21.3				
	eS	14	10	44.4					iS			25.1					iS			32.4				
	0		10	04.5	Δ = 83 mi.								Δ = 45 mi.								Δ = 58 mi.			
	Very small regional shock. Epicenter East of Littlefield, Ariz.?, near 36.9° N Lat., 113.8° W Long.																							
8	iP	16	26	35.8		-6	+5	+4	no								iS	16	26	51.1				
	iS			38.4		+8	-10	-10													Δ = 40 mi.			
	im			39	0.27	21	18	24																
	iZ			45.0	0.64	+14	-22	+20																
	0			32.0	Δ = 13½ mi.																			
	Very small local shock. Probable epicenter near Willow Beach.																							
8	e?	17	11	44.3					iP	17	11	34.9		+1	0	+20	eP	17	11	35.5		0	+2	-5
	eS?		12	03.0	Δ = 95? mi.				iS			45.5		+15	+5	+6	iP			35.8				
	Very small regional shock.								0			19.2					iS			46.6		+7	+11	
	Epicenter near Wolfs Hole, Ariz.												Δ = 55 mi.				iS			47.3		-30	+46	+10
																		Δ = 57 mi. NE of Pierce Ferry						
9	e	10	09	30					e	10	07	46					e	10	07	46				
	Seismic waves, may be regional shock																e		08	58				
9	no								iP	18	22	14.1		-15	-21		no							
	Local disturbance								i			41.9												
									iS?			15.9												
									i			16.9			250									
9	e	20	30	30					e	20	30	33					e	20	30	33				
	Distant earthquake?																							
10	iP	06	47	01.2		+8	+15		no								iS	06	47	20	Δ = 47 mi.			
	iS			02.7		9	22																	
	First of two very small local shocks. Δ = 13 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
10		no								e	09	46	53					e	09	46	53				
		Regional shock, near Springdale?								iS		47	12	Δ = 98 mi.				iS		47	11.5	Δ = 95½ mi.			
10		no								iS	09	48	32					e	09	48	12				
		Regional shock																iS		48	30.8	Δ = 97 mi.			
11		e	01	15	19					e	01	15	09					e	01	14	55				
		eS		17	11					i			17					eS		17	27				
										i			33												
		Felt in Ukiah, Calif.								eS		17	18					e	01	33	01.3				
																		iS			08.7				
11		e?	09	47	50					e	09	47	24					e	09	47	20				
		Distant earthquake.																							
17	11	iS	14	44	34.8		14	5		i	14	44	20.0					iP	14	44	14.4		-5	+31	
						Δ = 50 mi.				iS?			25.7		15	11		iS			16.9		+33	+90	
		Very small local shock. Epicenter												Δ = 31 mi.				0			10.8	Δ = 13 mi.			
		on West side of Grand Wash N of Pierce Ferry.																							
18	11	iP	19	48	55.0		+7	+8		iP	19	48	59.8					eP	19	49	01.3				
		iS			58.0					iS		49	06.3					iS			08.7				
		iS			58.3		-68	+110						Δ = 32½ mi.								Δ = 37½ mi.			
		M			59		135																		
		0			50.6	Δ = 15½ mi.																			
		Small local shock. Epicenter on Lake 8 mi. NE of Boulder Dam, focus 7 mi. deep.																							
	12	iP	14	43	59.0																				
		iS			59.8	Δ = 4 mi.																			
19	12	iP	20	02	50.1		-5	-6		iP	20	02	55.2		-2	+8		iP	20	02	56.5				-6
		iS			52.8					iS		03	01.4		-27	25		iS		03	03.8				+54
		iS			53.1		+16	-18						Δ = 32 mi.				M			04				85
		M			54.0		52	43														Δ = 36½ mi.			
		0			46.1	Δ = 14 mi.																			
		Small local shock. Epicenter 1/2 mi. SE of No. 18 epicenter. Direction good. May have been felt at Boulder Dam.																							

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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
20	12	BOULDER CITY	iP	23	00	59.4		-27	+62	
			iS		01	00.3				
			iS			01.0	57.9	295	180	
			0 =			58.0				
			Light local shock, Δ = 5 mi.							
		OVERTON	e	23	01	11.2				
			eS			20.5				
			iS			20.8	Δ = 47 mi.			
			Epicenter 5 mi. SE of Boulder City. Direction good.							
		PIERCE FERRY	eP	23	01	11.1				
			iS			20.0		+16	+16	
			M					25	30	
			Δ = 46 mi.							
	12	BOULDER CITY	iP	23	03	02.9		-11	+25	
			iS			03.9		+180	-290	
			0 =			1.4				
			Light local shock.							
		OVERTON	e?	23	03	11.5	Δ doubtful			
		PIERCE FERRY	eS	23	03	23.5			10	
	12	BOULDER CITY	i	23	14	45.5		-3	+4	
			iS			46.4		+24	-48	
			Very small local shock.							
		OVERTON	no							
		PIERCE FERRY	no							
	13	BOULDER CITY	iP	05	03	11.8		+25	-18	
			i			12.3			-68	
			iS			12.5		+94	+170	
			0			10.7				
			Small local shock. Felt in Boulder City.							
		OVERTON	eS	05	03	34.2				
		PIERCE FERRY	eS	05	03	33.4			9	
	14	BOULDER CITY	iP	09	20	02.7		-16	+36	
			iS			03.7		190	145	
		OVERTON	e?	09	20	29.6				
	14	BOULDER CITY	eP	18	49	04.0		+5	-5	
			Distant earthquake. U.S.C. & G.S. epicenter 21 S Lat., 71 W Long; 0 = 18h 37.8m, Δ = 4820 mi.							
		OVERTON	iP	18	49	06.0		-45	-15	
		PIERCE FERRY	iP	18	49	01.8				
	15	BOULDER CITY	e	14	10	25				
			iP			31.3				
			iS		11	10.7				
			iS			14.5			60	
			Regional shock, Δ = 268?mi.							
		OVERTON	e	14	10	42.0				
			iP			53.6				
			iS		11	28.3	Δ = 305 mi.			
			iS			34.1		105		
		PIERCE FERRY	e	14	10	25				
			iP			27.0				
			iP			41.0				
			iS		11	16.5	Δ = 280 mi.			
			iS			24.5			120	
	15	BOULDER CITY	iP	17	38	51.9				
			iS			53.1			48	
			Very small local shock, Δ = 6 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
15	eS?	19 45 17.5			eP	19 44 59.1		-3 -6	no			
	O	44 56	Δ = 44½ mi.		iP	59.4		-16 +6 -24				
	Probable epicenter SW of Overton.				iS	45 01.1		220 180				
					Light local shock, Δ = 10½ mi.							
15	e	23 10 39.7			e	23 10 45.7			eP	23 10 53.7		-9 -7 -50
	Distant earthquake. U.S.C. & G.S. epicenter 14° S Lat., 174 W Long.								ipP	12 03.0		
	Depth of focus 180 mi. O = 22h 59.2m; Δ = 5200 mi.								eS	20 24		
16									iP	04 34 37		-4 -45
16	eP	23 16 01.4			e	23 16 03.8			e	23 16 04.9		
	Distant earthquake				iP	05.8						
17	i	00 41 35.0	Local disturbance?		e	00 41 46.2			e	00 41 41.4		
	eP	37.6		+10	i	42 01.2			iP	42.4		
	iP	50.1		+36	iS	48.3			i	55.7		
	iS	42 29.8			iS	43 03.6		390	iS	42 39.2		380
	iS	36.9		180								
	Regional shock.											
17	eP	00 53 23.3			e	00 53 34.9			e	00 53 18.2		
	iP	25.9			eS	54 30.4			iP	30.9		
	eS	54 05.8							iS	54 15.0		
	iS	12.5		15					iS	25.3		60
	Regional shock, Δ = 300? mi.											
17	e	00 57 35.7			e	00 57 21.5			iP	00 57 32.6		
	iP	40.3			i	40.5			iP	45.4		
	i	58 20.3			iS	58 08.4			iS	58 29.7		
	iS	30.7		35	i	15.5		45	i	38.4		100
	Regional shock.											
17	e	23 09 14.0										
	Distant earthquake											

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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
18	no								Regional shock, Δ = 140 mi.								eP	16	24	43.8				
																	iS		25	13.0			38	
18	iP	17	14	43.36	0.20	+20	-34	+24	no								eP	17	14	56.2				
	i			43.87													iS		15	06.2				
	iS?			44.94													iM			11.9			45	
	iS			45.65		-84		+95													Δ = 51 mi.			
	iS			45.96			154																	
	iZ			48.30	0.78	180	200	188																
	O			41.05	Δ = 8.1 mi?																			
	Blast at 3 Kids Mine																							
20	e	05	03	12.5					e	05	03	16					e	05	03	16				
	Distant earthquake																							
20									e	07	07	57					no							
									Distant earthquake															
20	iP	12	07	00.4		+6	-5	-17	no								iS	12	07	22.6				-4
	iS			01.4		-80	+57	+15													Δ = 49 mi.			
	O		06	58.9	Δ = 5 mi.																			
	Small local shock.																							
20	eS	16	56	13.5													eP	16	53	34.5				
	Regional shock																eS		55	40.7				
20	e	20	53	32					e	20	53	42					eP	20	53	36.0			+2	+7
	eS		55	44					eS		56	09.5					iP			42.6				
	Regional shock																eS		55	52.6				
																	iS			57.0				
20	no								iP	21	26	00.2		-9			no							
									i			01.7												
									iS			03.0		-8										
21	eP	21	49	21.5													eP	21	49	26				
	Distant earthquake.																							

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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
22	iP	06	19	52.3		+7	-2	-18																
	iS			53.8		+22	+23																	
	Very small local shock, Δ = 7½ mi.																							
23	iP	04	20	46.4		-11	+35	-125	no								eP	04	20	59.0				
	iS			47.5			-200										iS		21	08.2				7
	O			45.0	Δ = 5½ mi.																Δ = 49 mi.			
	Small local shock. Felt in Boulder City by few																							
23	iP	19	17	45.2		+1	+5	-7	no								eP	19	17	50.4				
	iS			48.4		-10	+32										iS			57.8			+22	+40
	Very small local shock, Δ = 16 mi.																				Δ = 38 mi.			
25	iP	04	04	33.5		+6	+12	-36	no								eS	04	04	52.4				
	iS			34.6		+15	+55	+85													Δ = 43 mi.			
	O			31.8	Δ = 5½ mi.																			
	Small local shock																							
26	iP	03	51	33.0					e	03	51	36.7					eP	03	51	45.0				
	iS		52	07.7		26	24	40	iP			40.4					iP			48.6				
					Δ = 165 mi.				iS		52	19.2		42		25	iS		52	27.1		35	42	
	Regional shock. Probably WSW of Boulder City.												Δ = 190 mi.								Δ = 205 mi.			
26																	eP	06	30	52	Regional shock			
																	iP		31	07				
																	eS			47				
26	eP	17	50	31.6					eP	17	50	34.8					e	17	51	04.1				
	iP			57.6					iP		51	01.8					iP			06.5				
	e	18	00	44.4	5				e	18	00	51.7					ipP			31.6				
	Distant earthquake																iS	18	01	21.9				
																	esS		02	03				
27	iP	21	25	38.7		-6	+26	+35	no								no							
	iS			39.8		-30	-58	-105																
	Small local shock, Δ = 5½ mi.																							

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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								
21 27	iP	23	12	26.5		+8	-40	-130
	iS			27.6		235	210	350
	O			24.9	Δ = 6 mi. (5.8)			
	Light local shock. Epicenter 4 mi. NW of Boulder Dam in Lake Mead. Felt in Boulder City.							
28	iP	03	57	07.5		-9	+18	-75
	iS			08.4		+95	-80	
	Small local shock.							
28	eS	15	30	49	Δ = 54 mi.			
28	iP	15	33	25.1		+17	+29	-120
	iS			26.2		-37	-60	
	iM			27		85	140	
	O			23.5	Δ = 6 mi.			
	Small local shock.							
28	iP	15	35	08.9		+6	+13	-42
	iS			10.0		-12	-16	
	M			10.5		42	58	
	O			07.3	Δ = 5½ mi.			
	Small local shock.							
29	Distant earthquake							
29	e	11	47	28				
	e		49	30				
	Regional shock							
30	e	21	08	49				
	iP		09	11				
	iS		10	17				
	iS			19				
	Regional shock. Felt in Lake Tahoe region.							

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON							
e	23	12	35.7				
iS			43.2				
				Δ = 38½ mi.			
no							

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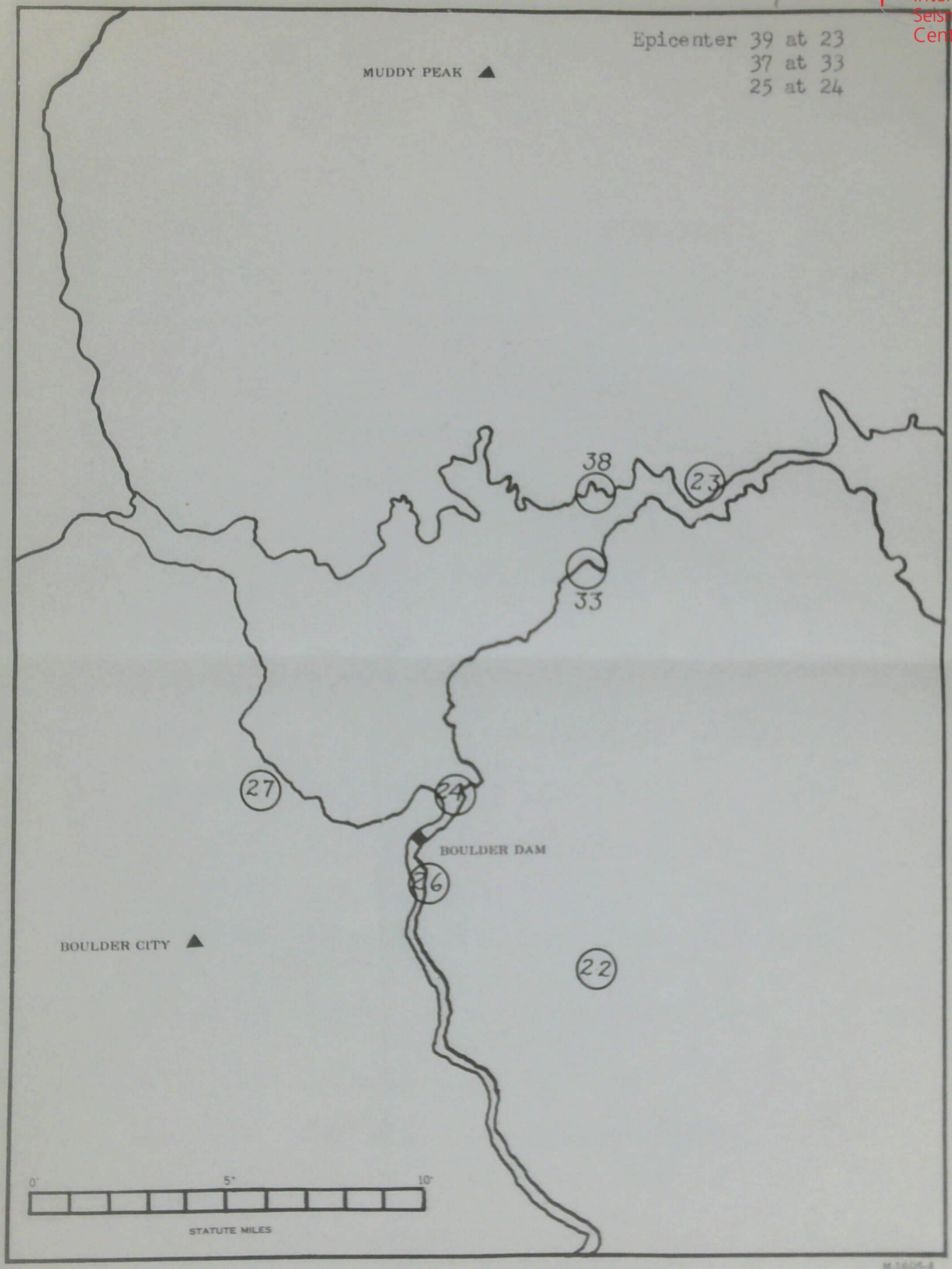
MONTH OF March 1943 11.

Time used is G.C.T.

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
31	BOULDER CITY	iP	20	17	49.2		+25	-35	+100
		iS			51.6		-110	74	-200
		M			55		205	200	510
		O			45.7	Δ = 12½ mi.			
		Small local shock. May be a blast at 3 Kids Mine, 8 mi. NW of Boulder City. Instrumental direction to the mine is good.							
	OVERTON	eP	20	17	58.2				
		iS		18	09.6				
						Δ = 44 mi.			
	PIERCE FERRY	iP	20	18	01.0			+4	
		iS			11.3			+30	
						Δ = 53 mi.			
31	BOULDER CITY	e	21	56	29				
	OVERTON	e	21	56	40				
	PIERCE FERRY	e	21	56	26				
		Seismic waves							

TENTATIVE EPICENTERS IN THE LAKE MEAD REGION, APRIL, 1943.

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M-1605-4

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - APRIL, 1943.

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

18 epicenters were located as follows:

No.	Date Apr.	G.C.T.	Location of Epicenter
22	1	12h 13m 46s	Epicenter 5 miles SE of Boulder Dam.
23	6	11h 35m 08s	Epicenter in or near Boulder Canyon, 10 miles NE of Boulder Dam.
24	8	12h 45m 02s	Epicenter 1 mile NE of Boulder Dam.
25	8	18h 27m 30s	Epicenter at 24 above.
26	9	05h 46m 01s	Epicenter about 1 mile S of Boulder Dam.
27	14	07h 24m 35s	Epicenter 4 miles NW of Boulder Dam in Hemenway Wash.
28	18	08h 42m 28s	Epicenter probably in Meadow Valley Mts. 20 miles N of Rox, Nevada.
29	19	14h 17m 44s	Epicenter 17 miles SE of Elgin, Nevada.
30	20	05h 39m 04s	Epicenter apparently near 29.
31	20	06h 37m 50s	Epicenter apparently between 29 and 30, near or at Carp, Nevada.
32	21	17h 53m 40s	Probable epicenter 22 miles SE of Elgin, Nevada.
33	21	23h 54m 50s	Epicenter near Boulder Canyon 8 miles NE of Boulder Dam.
34	22	16h 33m 46s	Epicenter 7 miles W of Las Vegas, Nevada.
35	27	05h 51m 22s	Epicenter near E. base of Virgin Peak, 30 miles N of Pierce Ferry.
36	29	17h 43m 00s	Epicenter in Grand Wash, 9 miles E of 35 and 31 miles N by E of Pierce Ferry.
37	29	22h 45m 37s	Epicenter at 33.
38	30	16h 38m 47s	Epicenter in Boulder Canyon N of 33.
39	30	17h 29m 20s	Epicenter in Boulder Canyon near 23.

The following shocks were reported felt in the Lake Mead Region. (Roman numerals

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are intensity grades as estimated by the modified Mercalli Scale of 1931.)

No.	Date Apr.	G.C.T.	Intensity and Description
24	8	12h 45m	III Felt by all in Boulder Power House at Boulder Dam; rapid motion for 2 seconds.
25	8	18h 27m	III Felt by several in Power House at Boulder Dam; rapid motion for 2 seconds.
-	8	18h 35m	II Felt by several in Power House at Boulder Dam; momentary rapid motion. None of these small earthquakes were reported felt in Boulder City.

Since this report was started, it was found that many earthquakes were occurring on the higher magnification Vertical at Pierce Ferry, which earthquakes did not record at the other stations. These earthquakes are listed below:

Date	Phase	Time h	m	s	Trace Amplitude E	N	Z
1	e	18	54	41			
	i			42.5			
1	eP	22	03	14.4			
	eS			49.1			
	Regional						
2	eP	23	59	41			
3	iP	06	43	28	-25	-7	-120
	iS			30	150	170	
	Epicenter probably in Greggs Basin. Small local shock; Δ = 10½ mi.						
4	iP	05	54	23			
4	iP	12	28	39			
5	iP	03	18	22			
	ipP			53			
6	iP	18	29	32			
6	iP	20	31	20			
7	iP	06	25	36			
7	iP	08	22	04			
7	i	08	59	50			
7	iP	13	19	00.5			

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Date	Phase	Time h	m	s	Trace Amplitude E	N	Z
7	iP	18	12	43.5			
7	iP	20	32	14			
	i		32	56			
7	iP	22	46	35.5			

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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
	1	eP	01	11	04.7					iS?	01	11	53.6					eP	01	11	15.1				
		iP			06.3													iS			38.4			+12	
		iS			23.6			7											Δ = 120 mi.						
		Regional shock, Δ = 93 mi.																							
22	1	iP	12	13	49.5		+5	-1	-18	iP	12	13	57.9					eP	12	13	57.0				
		iS?			51.2				+85	eP			58.2					e		14	03.6				
		iS			51.9		-55	+135	+145	eS		14	05.0					iS			04.4			37	
		0			46.0	Δ = 12½ mi.				iS			05.9			30						Δ = 38½ mi.			
		Small local shock. Epicenter 5 mi. SE of Boulder Dam.												Δ = 41½ mi.											
	1																	e	14	37	34				
																		e		38	01.5				
																		e		41	22				
																		Seismic waves							
	3									iP	19	46	30.8		-13	+16	-								
										iS			32.6		-80	-72									
										Small local shock, Δ = 9 mi.															
	3									eP	22	27	52.0					eP	22	27	53				
										iP			56.9					iS		28	22.7				
										i		28	21.2	-	52	32	-								
										Regional shock, Δ = 140 mi.															
	4	e	15	49	34.1					e	15	49	38												
		iP			35.4					eP			39												
		iS		50	09.7	Δ = 170 mi.				iP			41												
										iS		50	22												
	4	iP	13	52	40.4					eP	15	52	46					drum stopped							
		iS		53	14.9	Δ = 165 mi.				iP			48												
		Regional shock								iS		53	27												
	5	e	08	27	42.6					eP	08	27	47					e	08	27	38.5				
		eS		30	56					iP			54					iP			46				
		iS		31	05.5					eS		31	15.5					eS		30	54				
		Distant earthquake								iS			36												

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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
	5	eP	13	50	51.3					iP	13	50	44.4					eP	13	50	51.9				
		iP			52.1					iS			53.5					iP			52.6				
		iS		51	07.2					O			30.8	Δ = 53 mi.				iS		51	09.0				
		iS			09.9					Epicenter near the Meadow Valley Mts.								iS			10.1				
		O		50	27.9	Δ = 82 mi.												O		50	27.6	Δ = 86 mi.			
						Regional shock.																			
23	6	eP	11	35	13.6					eP	11	35	16.2					eP	11	35	16.9				
		iS			17.0			-42		eS			21.6					eS			23.7				
		O			08.5	Δ = 17½ mi.				iS			22.7	Δ = 28 mi.				iS			24.0			-19	
		Very small local shock. Probable epicenter in Boulder Canyon.																				Δ = 33 mi.			
	6	eP	16	19	15.7		-9	+13	+60	e	16	19	25.8				-200	eP	16	19	12.4				
		eS		29	12.0					iS		29	14.0					iP			19.8				
		Distant earthquake. U.S.C. & G.S. epicenter 32° S Lat., 70° W Long.;																eL		46					
		O = 16h 07.1m. Δ = 5500 mi.																							
6		eP	22	37	37.4					eP	22	37	46.3					eP	22	37	31.9				
		iS		38	24.3					iS		38	38.6					iP			47.4				
		Regional shock																iS		38	44.4	Δ = 400 mi.			
7		eP	03	47	22.0					e	03	47	35.5					e	03	47	15.3				
		iS		48	02.2					iS		48	19.6					eP			25.0				
		Regional shock.																eS		48	11.0				
																		iS			15.1	Δ = 315 mi.			
7										iP	22	46	34												
7		e	23	29	05.6					iP	23	29	55					iP	23	29	51.5				
		Distant earthquake																							
8		eS	03	56	00					iP	03	55	10.5					eP	03	55	10.4				
										iS			43.2					eS			41.6				
										Regional shock.															
8		iP	09	06	11.2		+10	+7	+23	e	09	06	19.6					eS?	09	06	29.2				
		iS			12.4		-105	+70	-90	eS?			28.7									Δ = 41.2 mi.			
		O			09.4									Δ = 40.2 mi.											
		Small local shock. Δ = 6.3 mi. Probable epicenter near Boulder Dam, but too small to be recorded on																							

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No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	8	eP	10	49	51.9				
		iS		50	20.7				
		Regional shock. Δ = 150 mi.+							
24	8	iP	12	45	04.6		+22	-6	-105
		iS			06.4		-55	-90	
		O			02.0	Δ = 9½ mi.			
		Small local shock. Epicenter 1 mi N of Boulder Dam. Felt at Boulder Dam.							
25	8	iP	18	27	31.5		+35	+30	-145
		iS			33.3		+62	-140	
		O			28.9	Δ = 9½ mi.			
		Small local shock. Epicenter 1 miles NE of Boulder Dam. Felt at Dam.							
	8	iP	18	35	17.7		+8	+7	-40
		iS			19.5		-20	-35	-
		Very small local shock. Felt at Boulder Dam.							
26	9	iP	05	46	03.0		+14	-11	+48
		iS			04.1		+	+175	-110
		O			01.3	Δ = 6 mi.			
		Small local shock. Epicenter about 1 mile S. of Boulder Dam.							
	9	eP	09	01	25.7		+4	+10	-10
		iP			35.2				
		eS		11	39				
		Distant earthquake. U.S.C. & G.S. epicenter 19° N Lat., 145° E. Long.; O = 8h 48.8 m. Δ = 6000 mi.							
	9	iP	03	53	16.4		-9	+12	+32
		iS			17.5		40	37	
		Very small local shock. Δ = 6 mi.							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
	8	e	10	49	59.9				
		eP		50	03.1				
		eS			38.7				
		iS			42.5	Δ = 185 mi.			
24	8	eZ	10	45	13.5?				
		e			16.5				
		iS			20.5				
		i			23.5	Δ = 38½ mi.			
25	8	e	18	27	41.5				
		iS			47.4				
		i			53.3	Δ = 39 mi.			
	8	no							
26	9	iS	05	46	20.7	Δ = 40½ mi.			
	9	iP	09	01	24.7				-15
		iP			25.2		-8	-8	+130
		iP			30.3				
		eS		11	35.3				

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
	8	e	10	49	51.4				
		eP			58.4				
		eS		50	32.9				
24	8	e	12	45	12.8				
		eS			21.4	Δ = 40½ mi.			
		iP	18	27	39.8				
25	8	e	18	27	40.7				
		iS			48.6	Δ = 41 mi.			
	8	no							
26	9	iP	05	46	12.1				
		e			13.5				
		eS?			19.9				
		iS			21.3	Δ = 41½ mi.			
	9	iP	09	01	26.5				+20
		eP			27.6		+18	+4	+330
		iP			35.5				
		eS		11	35.4				

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
10	e	05	12	56.5				
	eS		13	27.1				
	0			12.5	Δ = 155 mi.			
	Regional shock; may be more than one shock; time fails to check.							
10	eP	10	39	31.6				
	iS			53.4				
10	eP	11	51	10.3				
	i			11.7				
	eS			30.8				
	iS			31.6				
	0		50	39.2	Δ = 111 mi.			
	Regional shock. Epicenter in Beaver Dam Mts. near 37.4° N Lat., 113.8° W Long.							
10	eP	16	00	06.2				
	eS			42.3				
	Regional shock.							
10	e	16	56	02.7				
	iS			22.7	Δ = 103 mi.			
	Regional shock.							
10	eP	18	32	30				
	eS		33	16				
	Time poor. Regional shock.							
10	no							
10	iP	23	31	30	time poor			
	iS			31.3	110			
	Small local shock, Δ = 7 mi.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	05	12	55.6				
eS		13	24.6	Δ = 148½ mi.			
Regional shock; epicenter near 37.6° N Lat., 116.8° W Long.							
iP	10	39	11.9				
i			27.6				
iS			33.1				
iP	11	50	57.9		-4	-2	-20
iP			58.4		+13		
iS		51	11.2		255		
				Δ = 66½ mi.			
e	16	00	15	Seismic waves			
iP	16	55	48.0				
iS		56	00.9	Δ = 66½ mi.			
0		55	29.0				
Probably in Beaver Dam Mts.							
e	20	44	59.4				
e	23	43	15.7				
eS		44	20.2				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	05	13	05.1				
eS			39.9	Δ = 179 mi.			
e	10	39	06.0				
eP			23.0				
e			24.5				
i			27.6				
iS			45.2				
i			46.7				
eP	11	51	05.0				
iP			07.2				
iS			22.4				
iM			25.1				120
				Δ = 89½ mi.			
iP	16	55	54.6				
iS		56	12.6	Δ = 92½ mi.			
iP	20	44	53.9				
Distant earthquake.							
e	23	43	17	Seismic waves			

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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
11	e	14	58	17					e	14	58	05					iP	14	58	07.0				
									i			21					Distant earthquake.							
11									e	18	37	10.5					iP	18	37	06.9				
									iP			11.5					i			17.7				
									Regional shock								iS		38	08.8				
11									e	19	15	00.8					eS	19	15	38.7				
									iS			21.5												
									Regional shock															
11	no								e	23	21	56.8					no							
									iP			57.1												
									iS			59.5		75										
									Small local shock or disturbance.															
12	no								eP	05	54	27.3					iP	05	54	33.6				
									iS			39.1		22			iS			51.2				20
									Very small local shock.															
														Δ = 61 mi.										
12	iP	09	09	06.0		-8	+5	+50	no								e	09	09	17.2				
	iS			07.3		110	90	200									eP			18.1				
	O			04.1	Δ = 7 mi.												iS			26.0				15
																								Δ = 45½ mi.
12	no								no								iP	15	00	09.9				-30
																	iS			11.8				42
																	Very small local shock.							
																								Δ = 10 mi.
12	e	19	54	53					e	19	55	30.6					iP	19	55	31.0				
									iP			40.8					iP			41.3				
									e	20	03	40.4					e	20	03	16.6				
																	Distant earthquake.							

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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
13									e	02	28	24.3					e	02	28	20.2				
									iS		29	06.7					eP			30.9				
																	iS		29	22.0				
																	Regional shock, Δ = 300 mi.?							
13									e	06	49	35					e	06	49	31.8				
																	Distant earthquake							
13	eF	09	08	22.7		+5	-5	-20	iP	09	08	24.3		+15	-8	+58	iP	09	08	20.1		+10	+2	+57
									i?			41.8					ipP			33.0				
																	Distant earthquake							
13	no								e	12	48	20					e	12	47	06.2	Seismic waves			
13	no								e	12	59	06					e	12	59	01.2				
	14	no	Distant earthquake						e	06	28	24.4					eP	06	28	19.3				
																	iP			20.5				
27	14	iP	07	24	36.2		+2	+16	-60	iS	07	24	54.0	Δ = 40½ mi.			eP	07	24	47.0	Δ = 45½ mi.			
		iS			37.3		-	-100	-175								eS			56.4				
		O			34.6	Δ = 6 mi.																		
		Small local shock. Epicenter 4 mi. NW of Boulder Dam in Hemenway Wash.																						
	14	e	08	48	45.5				e	08	49	00.5					e	08	48	51.3				
		eS		49	25.4	Δ = 220 mi.			e			46.0					eS		49	36.7				
									iS			50.7	Δ = 280 mi.				Regional shock, Δ = 250 mi.							
	14	eP	09	02	12.3				iP	09	02	10.1					iP	09	02	18.6				
		iP			14.4				iS			25.9					iS			40.7	Δ = 113½ mi.			
		iS			30.6				O		01	46.0	Δ = 82½ mi.											
		iS			33.1	Δ = 91½ mi.																		
		Regional shock. Probable epicenter East side Emigrant Valley, 36.1° N Lat., 116.6° W Long.																						
	14	iS	09	22	50			13	no															
						Δ = 15 mi.																		
		Very small local shock																						

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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
14	no								e?	09	46	02					eP	09	45	47.4				
																	Distant earthquake							
14									eP	11	21	13.5					iP	11	21	12.8		0	-1	-16
																	i			34.0				
																	Distant earthquake							
14	eP	11	45	32.5					iP	11	45	22.8					iP	11	45	28.8				-9
	eS			52.2					i			25.1					iS			46.7				
	iS			53.0	Δ = 102½ mi.				iS			35.2	Δ = 69 mi.				0			02.7				
	Local to regional shock.																Regional shock, Δ = 91½ mi.							
	Probable epicenter NE of Overton, near 37.4° N Lat., 114.0° W Long.																							
14	no								?								e	11	48	17.6				
																	e			29.0	Seismic waves			
14	iP	16	45	20.6			+12																	
	iS			21.6			-80																	
	Small local shock, Δ = 5 mi.																							
14	e	17	35	14					e	17	35	14.9					iP	17	34	42.1				
	eS		36	1.9					iS		35	57.3					i			49.5				
									Regional shock.								iS		35	43.6				
																	i			52.8				43
14									no								e	20	02	41	Seismic waves			
15	e	10	56	19					eP	10	56	15.0					iP	10	56	19.4				-8
									i			25.3					ipP			31.3				
																	Distant earthquake							
15	e	11	46	49.3					e	11	46	47.6					eP	11	46	43.8				
																	Distant earthquake							
15									e	12	30	00	Distant earthquake											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194 3 8.

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	no							
15	e	14	41	58				
15	e	15	24	29				
	eP			53				
	e		26	16.5				
15	e	15	32	47.5				
	eS		34	05.3				
15	e?	15	39	04				
15	e	17	31	21.0				
	Seismic waves							
15	e	18	01	13.3				
	eS		02	26.0				
15	no							
16	no							
16	eS	07	05	57.7				

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
no							
e	14	42	00				
e?	15	24	39.5				
eP			56.4				
e		26	16.1				
e	15	32	47.7				
i			54.3				
iS		34	07.3				
i			16.6				
e	15	39	08.4				
e?	17	31	22.8				
e		32	52.2				
eS?		34	25.5				
e	18	01	08.9				
iS		02	36.0				
iP	21	10	19.8				
iS			21.2			80	
Small local shock, Δ = 7 mi.							
no							
e	07	05	10.1				
eS		05	50.3				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	13	00	23.9				
Distant earthquake							
e	14	41	54.0				
Distant earthquake							
iP	15	25	12.0				
i		26	59.1				
Regional to distant earthquake							
iP	15	32	40.4				-20
iS		34	15.2				63
Regional shock							
iP	15	38	54.2				
Distant earthquake							
eP	17	31	32.1				
eS?		33	05.8				
eP	18	00	57.2				
eS		03	16.4	Δ = 750 mi.			
Distant earthquake							
iP	00	47	01.7				-14
Distant earthquake							
e	07	04	59.1				
iS			45.5				
Regional shock, Δ = 250 mi.?							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194 3 9.

Time used is G.C.T.

BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	16								
	17								
	17								
	17								
	17								
28	18	eP?	08	42	52.0				
		iP			53.2				
		iS		43	10.1				
		iS			11.0				
		iS			12.2	Δ = 87 mi.			
		Local to regional shock. Probable epicenter in Meadow Valley Mtns. 20 mi. N of Rox							
	18	no							
	19	eP	01	26	12				
	19	iP	07	51	17.2		+10	+18	-90
		iS			18.3		-40	-95	
		Small local shock, Δ = 6 mi.							
	19	e	11	30	50				
29	19	iS	14	18	34.4	Δ = 104 mi.			
		Local to regional shock, Epicenter 17 mi. SE of Elgin							
	20								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
Distant earthquake							
Distant earthquake							
Distant earthquake							
Distant earthquake							
iP	08	42	45.1				
iP		42	47.2				
iS		43	56.6				
0		42	28.3	Δ = 59 mi.			
no							
no							
eP	01	26	06				
no							
eP	11	30	53.4				
e	14	18	09.1				
iS			17.2	Δ = 68 mi.			

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	16	53	32.7				
iP	0	49	46.1				
iP	02	52	13.6				
iP	12	09	46.8				
iS		11	05.9	Δ = 460 mi.			
Regional shock.							
eP	15	53	21.5				
eP	08	42	53.8				
iP			54.5				
iS		43	11.2				
iS			12.4	Δ = 89 mi.			
iP	09	09	15.8		-20	-3	-90
iS			17.9		170	55	110
				Δ = 11 mi.			
iP	01	26	01.5				-20
no							
eP	11	30	47.6				
iP	14	18	10.4				
iS			28.0				
0		17	44.4	Δ = 91 mi.			
i	00	48	36.6	Seismic waves			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1943 10.

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
30	20	e	05	59	34.1					eP	05	59	25.6					iP	05	59	31.1				-15
		iS			54.8	Δ = 104 mi.				iP			26.2					iS			49.3	Δ = 94 mi.			
		O			04.2					iS			37.4												
		Local to regional shock, apparently near above epicenter.								iS			37.9	Δ = 69 mi.											
31	20	eS	06	38	39.5	Δ = 96 mi.				e	06	38	10.0					eP	06	38	15.8				
										iS			22.5					iP			16.2				
		Local to regional shock,								e			23.2					iS			33.2	Δ = 90 mi.			
		apparently in Meadow Valley								iS			35.2	Δ = 64½ mi.											
		Wash between epicenters								O		37	51.2												
		29 and 30 at Carp, Nevada.																							
	20	eS	16	38	18.7					no								eP	16	37	50.5				
																		iS		38	06.2				
	20	e	17	20	39					no								eP	17	20	53.5				
																		iS		21	11.4				
	20	e	22	44	43.4					no								e	22	44	49.3				
		iS		45	22.7													iS		45	32.9				
	21	e	05	30	33.4					e	05	30	36.7					eP	05	30	39.4				
		eS		31	19.8					iS		31	18.2					iP			46.0				
		iS			23.0					iS			21.2					eS		31	32.3				
		Regional shock																iS			35.8	Δ = 355 mi.			
	21	no								iP	14	15	12.2					no							
		Small local shock								iS			14.1	80 Δ = 9 mi.											
	21	Regional shock								e	17	14	10												
										eS		15	17	Δ = 480 mi.											
32	21	e	17	54	09.0					eP	17	53	58.4					eP	17	54	05.3				
		eS			28.5					iP			59.1					iS			22.3				
		iS			29.0	Δ = 102 mi.				iS		54	11.2	Δ = 65 mi.				O		53	40	Δ = 88 mi.			
		Local to regional shock. Probable epicenter 22 mi SE of Elgin, Nevada																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194 3 11.

Time used is G.C.T.

No.	Date	Station	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							
	21		no								no								eP	18	10	32.2				
																			iS			39.5				
	21		no								e	23	30	12.1					no							
											eS		31	21.3	Δ = 400 mi.											
	21		iP	23	34	27.7		-	+20	+60	no															
			iS			28.9		-	-70	-180																
			Small local shock, Δ = 6 mi.																							
	21		e	23	41	37.3					eP	23	41	45					e	23	41	18.3				
			eS		42	50.3					iS		42	57					eS		43	04.0				
			Regional shock, Δ = 420 mi.																							
33	21		iP	23	54	54.8		-	-22	+33	iP	23	54	59.7					iP	23	55	00.9				
			iS			57.8			+75	+40	iS		55	05.9	Δ = 32½ mi.				iS			08.2	Δ = 37½ mi.			
			O			50.4	Δ = 15½ mi.																			
			Small local shock. Epicenter near Boulder Canyon 8 mi. NNE of Boulder Dam.																							
	21		no								e	23	59	40.2					no							
											eS	00	02	38.5												
	22		iP	00	49	27.5					e	00	49	41.5					eP	00	49	37.1				
			iS			45.9	Δ = 94 mi.				iS		50	06.0					iP			39.6				
																			iS		50	01.0	Δ = 124 mi.			
	22		iP	15	26	52.8					iP	15	26	51.5					eP	15	26	41.3				
			iP			54.3					eP			54.5					iP			43.3				
			i		27	30.5	Δ = 193 mi.				iP			58.6					iS		27	08.8	Δ = 141 mi.			
			i			36.3					i			22.3	Δ = 143 mi.				i			10.5				
			Regional shock. Probable epicenter in or near Painted Desert? to East.								i			28.7	Δ = 175 mi.				O		26	00.5				
											i			36.7												

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194 3 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
34	22	iP	16	33	56.9		-	-30	+117	iS	16	34	14.4	Δ = 39 mi.				iP	16	34	07.9				
		iP			57.7													iP			09.2				
		iS		34	04.3			65										iS			22.8	Δ = 76½ mi.			
		iS			05.0													iS			24.3				
		0		33	46.0	Δ = 38 mi.																			
		Small local shock, probable epicenter 7 mi. W of Las Vegas, Nevada																							
	23	eP	18	19	09.4					e	18	19	12.0					e	18	19	07.4				
	23																	e	20	02	28.7				
																		iS		03	04.3				
	24	iP	01	12	55.2					e	01	12	58.8					eP	01	13	06.8				
		iP			56.5					iP		13	03.1					iP			08.5				
		iS			26.3					iS			38.0					i			10.7				
		i			29.6				53									iS			46.9				
																		i			49.9				
																		i			55.4				
	24									no								iP	12	59	57.6				+7
																		iS			59.0				45
	24									no								iP	13	26	15.0				+9
																		iS			16.4				50
	24	e	14	13	15					iPZ	14	12	58.3					eP	14	13	10.0				
		eS	14	13	35.3	Δ = 100 mi.				iPZ	14	13	03.2					iS			25.0	Δ = 79 mi.			
		Local to regional shock.								i			08.3												
		Epicenter 15 miles N of								iS			16.5												
		St. George, Utah								0		12	47.0	Δ = 72 mi.											
	26																	eP	11	32	11.0				
																		iS			13.2			100	
																		Small local shock, Δ = 11½ mi.							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1943 13.

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
26	e	11	55	41.2					e	11	56	06.2					e	11	55	37.8				
	eP			53.5					eP			15.1					iP			40.3				
	eS		57	02.3					e			35.3					i		56	13.6				
	e		58	24.8					eS		57	36.1					iS		57	27.4				
	Regional shock								iS			43.3					i			53.0				
26	e	12	32	41.2					e	12	32	40.5					e	12	32	43.4				
	Distant earthquake																							
27	e	03	28	58.1					e	03	29	44.5					e	03	29	13.8				
	eP		29	08.1					e			51.2					eP			19.5				
	i			37.4					e		30	03.9					i		30	24.1				
	i			39.5					iS			08.3					iS			31.0				
	i		30	10.8					i			40.4												
	iS			19.4																				
	Regional shock																							
35 27	e	05	51	42.8			-3	+11	iP	05	51	33.5		-5	+3	+7	iP	05	51	34.5				+4
	iP			44.0					i			34.3					i			35.2				
	i			45.2					iS			39.7					i			41.2				
	iS			56.4					iS			40.1		-130	483	-20	iS			54.0				
	iS			58.5			14	30						Δ = 35 mi.			iS			41.8				115
	Local shock Δ = 6½ mi.																0			22.3	Δ = 40½ mi.			
	Epicenter near E base of Virgin Peak on Arizona-Nevada State line, 30 mi. N of Pierce Ferry.																							
27																	iP	20	56	17.3				
28	e	23	55	08.6					e	23	55	13.8					iP	23	55	10.8				
29	i	15	36	06.3					i	15	36	06.0												
29	iP	16	32	02.3			+12	+118	no								no							
	iS			03.4			230																	
	Light local shock, Δ = 5½ mi.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194 3 14.

Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	29	BOULDER CITY	e?	16	46	38				
		OVERTON	e	16	46	45				
			eS		48	34.5				
			iS			55				
		PIERCE FERRY	iP	16	46	35.0				
			i			45.2				
			iS		48	14.0				
			i			25.7				
			i			31.9				
36	29	BOULDER CITY	e	17	43	03.8				
			eP			17.5				
			iS			32.6		5		10
			Δ = 67 mi.							
			Very small local to regional shock.							
		OVERTON	e?	17	43	07.8				
			iP			08.6		-10		
			iS			15.0		-60		
			Δ = 31½ mi.							
			Epicenter in Grand Wash 9 mi. E of epicenter 35, 31 mi. N by E of Pierce Ferry (shallow)							
		PIERCE FERRY	iP	17	43	09.0		-1	-1	-10
			iS			15.0		60		55
			0		42	59.8	Δ = 31½ mi.			
	29	BOULDER CITY	no							
		OVERTON	iP	20	01	24.0				
		PIERCE FERRY	iP	20	01	24.1				+15
	29	OVERTON	no							
		PIERCE FERRY	eP	21	03	11.1				
37	29	BOULDER CITY	iP	22	45	41.1		+6	-22	
			iS			44.2		-20		
			iS			44.5		40		
			0			36.6	Δ = 16 mi.			
			Very small swarm type shock.							
			Epicenter at 33, or 1/2 mi N of it.							
		OVERTON	e	22	45	43.0				
			iP			45.8				
			i			46.2				
			i			50.3				
			iS			52.2	Δ = 32½ mi.			
		PIERCE FERRY	iP	22	45	47.2			-5	-15
			i			47.7				
			iS			54.1	Δ = 37 mi.			
			iS			54.7		+80	-17	-75
	30	BOULDER CITY	?							
		OVERTON	e	01	27	09.6				
			e		28	50.4				
		PIERCE FERRY	eP	01	27	11.6				
			e		28	54.3				
	30	BOULDER CITY	e	05	54	48.3				
		OVERTON	iP	05	54	56.5				
		PIERCE FERRY	iP	05	54	52.7				-13
	30	OVERTON	eP	12	05	50.5				
		PIERCE FERRY	iP	12	05	55.7				+7
	30	BOULDER CITY	e	15	53	59.1				
			i		54	03.9				
			iS			43.4				
			i			53.6	Δ = 250 mi.			
			Regional shock							
		OVERTON	e	15	54	08.7				
			i			21.8				
			iS		55	05.2				
		PIERCE FERRY	iP	15	53	55.6				
			i		54	18.8				
			i		54	38.1				
			iS		54	57.0	Δ = 300 mi.			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1943

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
38	30	eP	16	38	52.0		-4	+3		i?	16	36	58.7					iP	16	37	52.3	faint	local		
		iP			52.4			+6		iP	16	38	55.3					iS		38	01.2				
		iS			55.7			-20		iS		39	01.9					iP	16	38	57.3				
		iS			56.3			43		i			02.6	Δ = 32 mi.				iS		39	05.1				45
		O			46.6	Δ = 19 mi.																Δ = 38 mi.			
		Very small local shock. Epicenter in Boulder Canyon.																							
39	30	iP	17	29	25.3		+8	+7		eP	17	29	28.4					iP	17	29	30.3				+9
		iS			29.0		20			iP			28.9					iS			36.8				
		O			19.9			16		iS			34.3	Δ = 30 mi.				iS			37.4	Δ = 35 mi?			
						Δ = 19 mi.																			
		Very small local swarm type shock. Epicenter in Boulder Canyon, near Epicenter 23.																							
	30	e	20	26	12					e?	20	25	00					eP	20	24	59.5				
		1		26	55					1		27	16.0					iS		28	08.0				
		Regional shock.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - - - MAY, 1943.

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

25 epicenters were located as follows:

No.	Date May	G.C.T.	Location of Epicenter
40	2	14h 43m 14s	Near Tri-State corner, 37° N Lat., 114.2° W Long.
41	2	17h 34m 37s	10 miles N of Epicenter 40.
42	3	22h 42m 08s	1 mile N of Boulder Canyon.
43	3	23h 02m 26s	10 miles NW of Las Vegas.
44	3	23h 24m 27s	20 miles SE of Elgin, Nevada.
45	5	01h 58m 00s	10 miles N of Poverty Mt.
46	5	07h 00m 39s	11 miles N by W of Pierce Ferry, W side of Grand Wash; on State line.
47	6	18h 14m 45s	22 miles SE of Elgin, Nevada.
48	7	13h 08m 46s	2 miles S of Boulder Dam.
49	12	22h 06m 51s	Near Sloan.
50	15	21h 30m 44s	13 miles WNW of Boulder City near B.M.I.
51	17	19h 51m 56s	S of Railroad Pass.
52	18	09h 32m 39s	5 miles N of Indian Springs.
53	21	00h 08m 41s	5 miles N of Mormon Peak.
54	21	11h 06m 22s	47 miles N of Pierce Ferry, 12 miles NE of Virgin Peak, near 36.8° N Lat., 114° W Long.
55	21	19h 38m 43s	1 mile E of Fortification Hill.
56	26	01h 22m 25s	7 miles NE of Boulder Dam.
57	27	09h 32m 33s	9 miles NE of Boulder Dam.
58	27	23h 01m 26s	8 miles NE of Boulder Dam.
59	27	23h 01m 47s	8 miles NE of Boulder Dam.
60	29	03h 43m 03s	5 miles NE of Boulder Dam.

International Seismological Centre

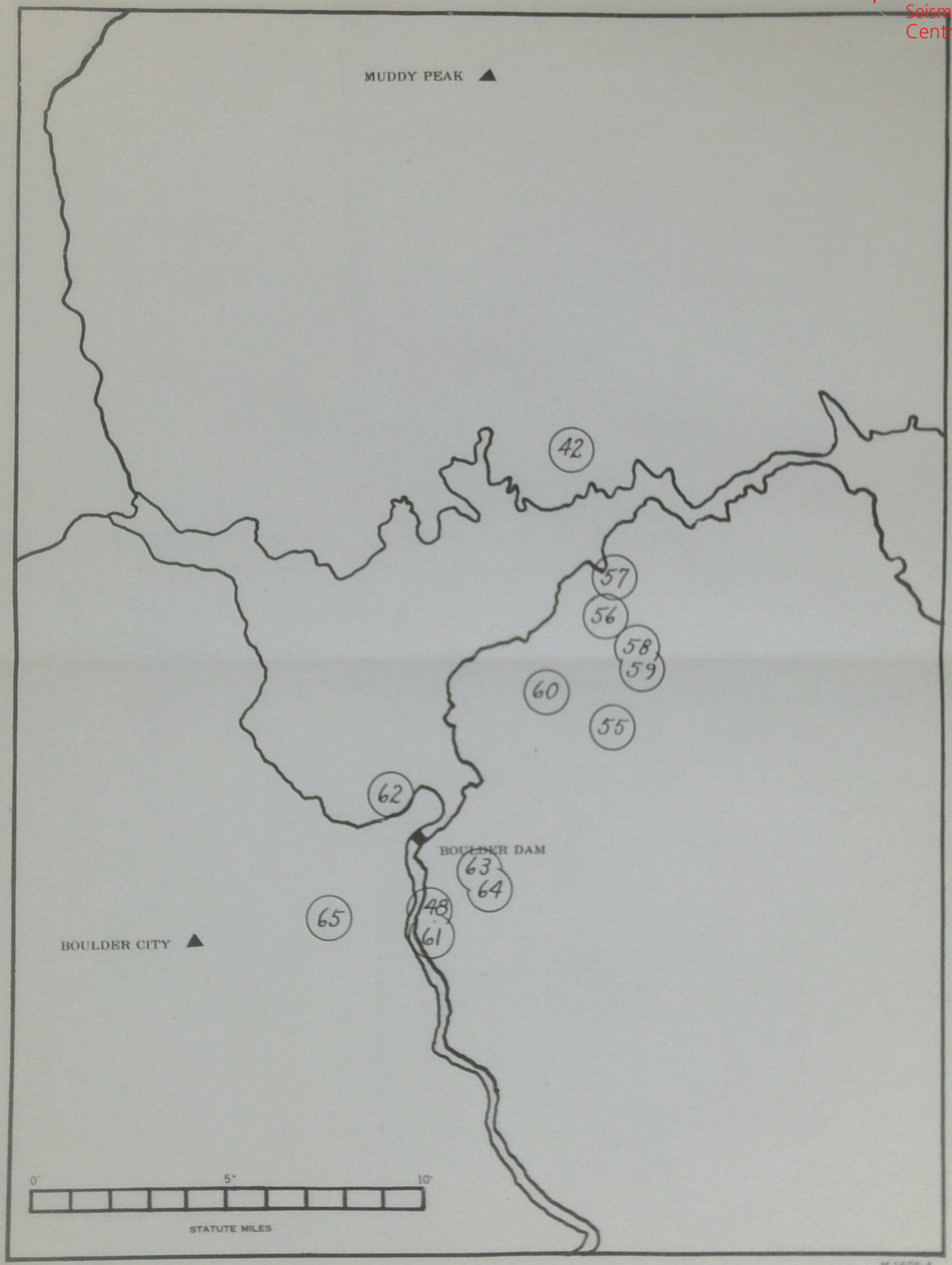
No.	Date May	G.C.T.	Location of Epicenter
61	29	03h 44m 27s	2 miles S of Boulder Dam at 48.
62	29	18h 17m 31s	2 miles NW of Boulder Dam.
63	29	19h 48m 22s	2 miles SE of Boulder Dam.
64	29	21h 13m 14s	2½ miles SE of Boulder Dam.

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 May	G.C.T.	Intensity and Description
	6	05h 10m	III to IV at Boulder City. Duration several seconds. Felt by several. Rattled dishes. III at Boulder Dam. Felt at Watermaster's Office and control room.
	25	04h 04m	III or IV at Boulder City. Slight vibration, mostly noise, lasting 1 or 2 seconds. Rattled windows and doors.
	28	19h 19m	II at Boulder City. Very light quiver.
	28	19h 37m	II at Boulder City. Very light quiver.
	29	02h 46m	II at Boulder City. Reported by one as light momentary shock. II at Boulder Dam. Felt in control room as very light shock.
60	29	03h 43m	III at Boulder Dam. Described as sharp shock. Felt in control room and Watermaster's Office.
	29	12h 37m	II at Boulder City. Felt by one as very light local shock.
62	29	18h 17m	III at Boulder Dam. Described as 1 sharp shock in control room and 2 light jolts of short duration in Watermaster's Office.
	29	20h 41m	III at Boulder Dam. Felt in control room and Watermaster's Office as sharp shock. Felt in elevator as if guide rails had been bent causing elevator to lurch to one side. Reported felt by rangers at East gate.

TENTATIVE EPICENTERS IN THE LAKE MEAD REGION, MAY, 1943.

International Seismological Centre



M-1605-4

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1943 1.

Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	2	BOULDER CITY	iP	06	35	35.2				
			iS		38	04.0				
			Distant earthquake							
	2		e	11	00	48.3				
			iS		01	07.3				
			0		00	20.2	Δ = 97½ mi.			
			Epicenter in Death Valley, W. side of Ibex Mts.							
40	2		e	14	43	44.1				
			eP			44.8				
			iS		44	04.9				
			iS			05.3			25	
			0 =		43	14.5	Δ = 103 mi.			
			Regional shock. Probable epicenter near Tri-State corner, 37° N Lat., 114.2° W Long.							
	2		eP	17	26	05.6				
			e?		32	32				
			U.S.C. & G.S. epicenter 6.4° N Lat., 80.1° W Long. Distant earthquake							
41	2		e?	17	35	05.5				
			e?			22.0				
			e			24.5	Δ = 98½ mi.			
			Probable epicenter 10 miles N of Epicenter 40.							
	3		e?	02	16	35				
			eS		18	01				
	3		no							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	2	OVERTON	iP	06	35	40.6				
			eS		38	17.0				
	2		eS	11	01	21.3				
			Δ = 127 mi.							
			Epicenter in Death Valley, W. side of Ibex Mts.							
40	2		e	14	43	32.6				
			eP			34.9				
			iS			47.1		80		
			Δ = 74½ mi.							
			Regional shock. Probable epicenter near Tri-State corner,							
	2		eP	17	26	08.1				
			iP			19.7				
			U.S.C. & G.S. epicenter 6.4° N Lat., 80.1° W Long. Distant earthquake							
41	2		iS	17	35	05.8				
			0		34	37.0	Δ = 60 mi.			
			Probable epicenter 10 miles N of Epicenter 40.							
	3		e	02	13	40.1				
			e		18	03.4				
			iS		18	16.7				
	3		e	02	28	43.3				

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	2	PIERCE FERRY	iP	06	35	34.2				
			i			39.0				
			iS		38	00.5				
	2		eP	11	01	00.3				
			iS			28.8	Δ = 143 mi.			
			Epicenter in Death Valley, W. side of Ibex Mts.							
40	2		iP	14	43	41.6		+3	-3	
			i			44.0				
			iS			58.3		-45	-10	
			i		44	01.1				
			M		44	00		150	50	
			Δ = 90½ mi.							
	2		eP	17	26	03.3				
			e		32	28.3				
			Distant earthquake							
41	2		eP	17	35	00.4				
			iS			16.4				20
			Δ = 82 mi.							
			Very small local to regional shock superposed on above distant earthquake.							
	3		e	02	13	30.5				
			eS		17	58.7				
			iS		18	14.2				
			Distant earthquake							
	3		e	02	29	06.7				
			Regional? shock							

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1943 2.

Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	3	BOULDER CITY	iP	10	22	36.5		+6	-9	-30
		OVERTON	iP	10	22	38.0				
			e		23	03.5				
		PIERCE FERRY	iP	10	22	32.5				
			i			54.5				
			Distant earthquake							
42	3	BOULDER CITY	iP	22	42	13.9		+5	-13	+55
			iS			17.1		+16	+15	+15
			iS			17.5		+72	-92	+250
							Δ = 17 mi.			
			Small local shock. Epicenter a mile N of Boulder Canyon.							
		OVERTON	iP	22	42	17.6		+3	+8	+25
			i			22.8				
			iS			23.5		+24	+24	+30
			0			08.9	Δ = 30 mi.			
		PIERCE FERRY	eP	22	42	19.6				
			iS			27.1				+13
							Δ = 38 mi.			
43	3	BOULDER CITY	iP	23	02	37.9		+11	-7	+30
			iS			45.2		-37	+18	-11
			iS			45.5		100	80	108
			0			26.7	Δ = 39 mi.			
			Small local shock. Epicenter 10 mi. NW of Las Vegas							
		OVERTON	iP	23	02	43.7				
			eP	23	02	44.3				
			iP			44.6				
			iS			55.1		-15	-10	
							Δ = 58½ mi.			
		PIERCE FERRY	iP	23	02	48.4				
			iP	23	02	48.9				
			iS		03	03.3				-15
			i			03.9				
			m			06.0		66	46	75
44	3	BOULDER CITY	iS?	23	25	15				
							Δ = 98 mi.			
			Local to regional shock. Epicenter 20 mi. SE of Elgin, Nevada							
		OVERTON	e	23	24	39.4				
			iP			44.9				
			iS			56.0	Δ = 60½ mi.			
		PIERCE FERRY	eP	23	24	51.7				
			iS		25	08.5				
			0		24	27	Δ = 86½ mi.			
	4	BOULDER CITY	no							
		PIERCE FERRY	iP	16	43	02.7		-5	+2	-43
			iS			05.2		110	30	
			Very small local shock, Δ = 17½ mi.							
	4	BOULDER CITY	e	18	30	24.2				
			Distant earthquake							
		OVERTON	e	18	30	24.4				
		PIERCE FERRY	e	18	30	27.8				
			i			37.9				
	4	OVERTON	iP	20	24	17.9		+24		
			iS			19.7				
	5	BOULDER CITY	iP	00	57	17.3		-40	+40	-220
			iS			18.3		400	350	950
			0			15.8	Δ = 5½ mi.			
			Light to moderate local shock. Probable epicenter near Railroad Pass.							
		OVERTON	e?	00	57	38.3				
			e			41.0	Δ = 47 mi.?			
		PIERCE FERRY	e?	00	57	32.7				
			i			41.1	Δ = 52½ mi.?			

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No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
45	5	BOULDER CITY	eP	01	58	25.1				
			i			30.3				
			iS			41.5		5	9	16
			Δ = 85½ mi.							
			Very small local to regional shock.							
		OVERTON	e	01	58	16.8				
			iS			27.4				
			Δ = 56 mi.							
		PIERCE FERRY	eP	01	58	13.8				
			iS			23.0				18
			0			00.3	Δ = 47 mi.			
46	5	BOULDER CITY	e	07	00	54.0				
			e			55.0				
			iS		01	03.7		+10	+10	
			Δ = 50½ mi.							
			Light local shock. Epicenter on State line, 11 miles N by W of Pierce Ferry. W side of Grand Wash.							
		OVERTON	iP	07	00	48.6		-3	+11	+24
			iS			54.9		-20	+20	+30
			Δ = 32 mi.							
		PIERCE FERRY	iP	07	00	43.4		-13	+8	-255
			iS			45.9		+290	-145	460
			0			39.6	Δ = 18 mi.			
	5	BOULDER CITY	e	15	21	46.7				
5			iP	21	34	15.7		+50	-74	+190
			i			17.9		-135		
			iS			18.3		-	+260	-275
			m			20		395	430	1035
			0			11.4	Δ = 13½ mi.			
			Light local shock. Epicenter, Blast? May be near Railroad Pass.							
		OVERTON	i	21	34	25.4		-9	-18	
			i			33.4				
			i			34.2				
			i?			36.1				
			Δ = 47½ mi.							
		PIERCE FERRY	iP	21	34	27.7		-6	+3	-20
			i			28.6				
			iS			38.0		+75	-15	+8
			m			40		88	58	93
			Δ = 55 mi.							
5		BOULDER CITY	e?	23	30	38.5				
			e			44.9				
			iS			47.6		-15		
			0			40.9	Δ = 14 mi.			
			Very small local shock. Epicenter probably 7 mi. E of Boulder Dam.							
		OVERTON	i	23	30	59.5	Δ = 38½ mi.			
			i		31	04.3				
		PIERCE FERRY	iP	23	30	51.1				+8
			iS			58.2		-8	+9	+15
			m			58.6		32		
			Δ = 36 mi.							
6		BOULDER CITY	iP	05	09	36.5		-20	+20	+190
			i			37.5		-37	-95	+270
			iS			37.7		+100	-	700
			m			39		500	575	800
			0			34.7	Δ = 6 mi.			
			Light local shock. Felt in Boulder City. Probable epicenter 4 mi. SE of Boulder City. Felt.							
		OVERTON	e	05	09	48.4				
			i			55.5				
			iS	05	09	56.5		-4	+21	
			Δ = 43 mi. to 45½ mi.							
		PIERCE FERRY	iP	05	09	47.5				-11
			iS			56.4		+26	-	-
			m			56.6		+90	-10	+30
			Δ = 45½ mi.							
6		BOULDER CITY	iP	05	10	33.7		+7	-8	-52
			iS			34.9		0	+35	0
			0			31.0	Δ = 6 mi.			
			Very small local shock. Aftershock of above.							
		PIERCE FERRY	i	05	10	54.0				
			Δ = 46 mi.							

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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	Remarks
47	6	BOULDER CITY	iP	18	15	14.1					
			i			14.6					
			iS			35.6		20	18		
							Δ = 104 mi.				
			Very small local to regional shock.								
		OVERTON	e	18	15	05.6					
			iS			17.5		+22	-47	-35	
			0		14	45.6	Δ = 66½ mi.				
		PIERCE FERRY	iP	18	15	11.7				-8	
			iP			13.0					
			iS			29.4				+25	
			iS			31.4				+90	
			Δ = 91 mi.								
48	7	BOULDER CITY	iP	13	08	48.1		+10	-7	-30	
			iS			49.1		-80	+255	-135	
			0			46.6	Δ = 5½ mi.				
			Small local shock. Epicenter 2 mi. S of Boulder Dam.								
		OVERTON	e	13	09	06.4	Δ = 41 mi.				
			Boulder Dam -								
			iS	13	08	47.3	Δ = 1½ mi.?				
		PIERCE FERRY	e	13	09	01.1					
			i			07.1	Δ = 42½ mi.				
	7	OVERTON	eP	16	02	23.5					
			iS			41.5	Δ = 93 mi.				
7		BOULDER CITY	iP	16	56	29.6		+4	-6	+15	
			iS			32.0		-20	+15	-40	
			im			32.4		28	40	65	
			0			25.1	Δ = 12½ mi.				
			Very small local shock.								
		OVERTON	no								
		PIERCE FERRY	eP	16	56	40.5					
			e			52.0					
7		BOULDER CITY	iP	17	56	55.7		+4	-8	+22	
			iS?			58.0		-13	-11	-	
			iS			58.3		+26	-	-30	
			im			58.7		28	28	60	
			0			52.2	Δ = 12½ mi.				
			Very small local shock.								
		OVERTON	e	17	57	11.4					
		PIERCE FERRY	e	17	57	06.8					
			e			18.1					
7		BOULDER CITY	iP	18	27	21.7		-10	+4	-10	
			iS			24.7		-14	+12	-27	
			iM			25		28	25	55	
			Very small swarm type local shock.								
		OVERTON	e	18	27	26.7					
			eS			32.3					
			iS			33.2					
		PIERCE FERRY	i	18	27	27.2					
			iS			34.6					
7		BOULDER CITY	e	20	05	44					
			eS		06	52					
			Regional shock. Δ = 400 mi.								
		OVERTON	e	20	06	06					
			eS		07	07.5					
		PIERCE FERRY	e	20	05	05.6					
7		BOULDER CITY	e	20	34	49					
		OVERTON	e	20	34	48.2					
			i			55.7					
		PIERCE FERRY	iP	20	34	21.0					
			i			28.5					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 194 3 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
7									no								iP	23	57	10.4				
8	iP	04	54	52.8		-	-	+6	e	04	55	08.1					i	04	54	57.0				
	eP			52.1		+1	-	-					Δ = 39½ mi.				iS		55	06.1	Δ = 35½ mi.			
	e			53.5		-3	+1																	
	iS			55.3		-11	+20	+25																
	O			49.1	Δ = 13 mi.																			
	Very small local shock. Probable epicenter 8 mi. NNE of Boulder Dam.																							
9	eP	17	19	34.4										No time check			iP	17	19	31.3				
	iP			35.0													i			41.0				
	iS		20	15.4													i		20	20.3				
	i			18.0		40	40										i			31.9				140
	Regional shock																							
9	eP	23	15	32													iP	23	15	35				
10	e	00	07	57													iP	00	07	51				
	Distant earthquake																							
10	iS	07	46	51			24		no								no							
10	iS	07	54	04			16		no								no							
	Two very small local disturbances; Δ? = 4 mi.																							
10	no	Distant earthquake															iP	10	16	12				
11	no								Small local shock; Δ = 9 mi.								iP	13	30	09.8		-6	-3	+8
																	iS			11.4		135	140	170
12	iP	02	01	21.8		+32	-50	+118	iP	02	01	30.8	Δ = 40 mi.				iP	02	01	33.9		+12	0	-19
	i			22.3					i			40.6					iS			44.1	Δ = 50½ mi.			
	i			24.4		-153	-210	-325	i			43.2	Time poor				iM			46.1				
	O			19.5	Δ = 8 mi. to mine																			
	Small local shock or blast?																							

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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									
	12	iP	08	34	59.9	Distant earthquake			
		e		36	00.8				
	12	iP	11	04	48.5		+7	+10	-60
		iS			49.3		-30	-37	
		Very small local shock							
		Δ = 4 mi.							
	12	i	23	00	15				
49	12	iP	22	06	58.4				+15
		iS		07	03.4		34	45	
		O			51.1	Δ = 25½ mi.			
		Very small local shock. Epicenter near Sloan.							
13		iP	02	55	47.3			-4	+14
		iS			48.6		25	-45	65
		Very small local shock; Δ = 7 mi.							
13									
13		iP	23	42	08.9		+35	+38	-110
		iS			10.2		-70	-95	-70
		im					170	160	260
		Small local shock; Δ = 7 mi.							
14		iP	03	18	27.1		-3	-3	-22
		iS			28.3		+20	-20	-140
		iM			28.5		120	+130	
		Small local shock; Δ = 6½ mi.							
15		iP	02	29	04.3				
		ipP			42.1				
		Distant earthquake							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
49	12	i	22	07	09.0				
		i			21.0	Δ = 62½ mi.			
13		no							
13		no							
13		no							
14		no							
15		iP	02	29	05.2				
		ipP			43.0				

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		iP	08	35	03.8		-5	+8	+45
		i		36	10.4				
		no							
49	12	i	22	07	12.7				
		iS			26.0	Δ = 72½ mi.			
		i			27.5				
		Δ = 76 mi.?							
13		no							
13		e	22	22	49.3				
		iS	22	23	06.5				
		Regional shock; Δ = 88 mi.							
13		no							
14		no							
15		no							

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

MONTH OF May 194 3 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
50	15	iP	21	30	44.0		+12	-9	+60	ePP	21	30	58.7					iP	21	31	02.1				
		i			52.0		-80	-100	-85	i	21	31	08.5					iS			13.3		+15		
		0			44.6	Δ = 15½ mi.								Δ = 50 mi.				iS			13.6		-40	-13	-28
		Small local shock. Epicenter 13 mi. WNW of Boulder City near B.M.I.																				Δ = 60 mi.			
	16	iP	20	42	38.6				-8	no								iS	20	42	00.5		+4	-5	
		i			39.3													iS	20	42	02.0				
		iS			40.0		+15	-47	-53																
		i			40.9																				
		Small local shock; Δ = 7 mi.																							
	17									no								eP	0	16	27.4				
																		iS			47.0				
																		Regional shock; Δ = 95 mi.							
	17	iP	05	21	11.1				+10	no								no							
		iS			12.2																				
		Very small local shock.																							
	17	iP	08	09	44.3					no								iP	08	08	48.0				
														Distant				ipP		09	41.6				
	17	iP	14	10	58.6				+9									no							
		iS			59.8		+14	-30	-20																
		i			00.1				42																
		Very small local shock.																							
	17	iP	17	35	24.4					e	17	35	23.3					iP	17	35	20.2				
		Distant earthquake								eP			29.6					i			22.5				
	17	no	Regional shock															iP	19	22	28.4				
																		i		22	39.4				
																		iS		23	31.9				
																		iS			39.6				35

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1943 8.

Time used is G.C.T.

BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
51	17	iP	22	52	01.3		+11	-15	+37
		i			02.2		-18		
		i			03.6		-50		
		iS			04.3		-70		
		i			06.4		+43	+90	-250
		Small local shock. Δ = 15½ mi. Direction indicates blast. Epicenter S of Railroad Pass.							
52	18	iP	09	32	58.6		-6	+5	-13
		i		33	00.8		-16	+22	-110
		i		33	04.9			-20	+75
		iS			11.3		-48	-20	-
		iS			11.6				-110
		i			16.4		-145	+50	250
		Δ = 65 mi.							
		Local to regional shock. Epicenter 5 mi. N of Indian Springs.							
18		no							
18		eS	22	37	28				
19									
20									
20		iP	23	04	43.4		+7	-8	+18
		iS			45.8		+23	+13	0
		i			46.2			-27	-25
		i			48.4		55	30	
		Small local shock							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
ep	19	52	11.3				
iP			11.5				
iS			21.4				
iS			22.1				
0		51	56.7	Δ = 52 mi.			
eP	09	32	59.7				
iP		33	00.5				
i			02.1				
iS			13.3			-70	
i			16.3				
0 =			39.5	Δ = 69½ mi.			

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	22	52	12.9				-8
iS			23.8				+23
				Δ = 56 mi.			
iP	09	33	07.3				-23
i			08.3				
iS			27.1				
				Δ = 101 mi.			
e	18	38	54.1				
i			56.8				
iS?		39	05.9				
Disturbance?							
eP	22	36	43.8				
iP		37	55.4				
iS		37	48.2				
iS			54.3				
Regional shock							
iP	23	31	07.0				
iS			07.9				165
Very small local shock; Δ = 5 mi.							
iP	11	18	04				

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No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
53	21	e	00	09	06.8				
		iP			07.8				
		is			23.9		+30	+16	-
		is			24.3		+50	+40	-120
		F			10.7	Δ = 87.5 mi.			
		Local to regional shock. Epicenter 5 mi. N of Mormon Peak.							
	21	no							
	21	no							
	21	no							
	21								
	21								
	21								
	21	no							
	21	no							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
		iP	00	08	59.1				
		iP		08	59.7			-8	
		i		09	00.7				
		is			07.4				
		0		08	41.6	Δ = 53½ mi.			
		Local to regional shock. Epicenter 5 mi. N of Mormon Peak.							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		iP	00	09	06.2				-12
		iP			07.4				
		is			22.0				
		i			29.2				
		i			56.3	Δ = 81 mi.			
	21	e	07	38	55.5				
	21	iP	08	31	56.5			+7	
		is			58.1			54	
		Very small local shock; Δ = 7 mi.							
	21	iP	08	32	07.3			+12	
		is			08.6			95	
		Very small local shock; Δ = 7 mi.							
	21	iP	08	55	07.5				-30
		i			08.4				
		is			08.7				38
		Very small local shock; Δ = 6½ mi.							
	21	iP	08	58	29.7				-40
		i			31.0				38
		Very small local shock; Δ = 7 mi.							
	21	iP	09	20	53.8				-50
		is			55.1				45
		Very small local shock; Δ = 7 mi.							
	21	e	09	37	35.8				
		Distant earthquake							
	21	iP	09	42	40.1				-43
		is			41.4				52
	21	iP	09	43	03.6				-36
		is			04.9				45

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No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
54	21	BOULDER CITY	e	11	07	47.7					
			iS		07	58.2				08	
							Δ = 74 mi.				
			Very small local shock. Epicenter 47 mi. N of Pierce Ferry, 12 mi. NE of Virgin Peak, near 36.8° N Lat., 114° W Long.								
		OVERTON	iP	11	06	30.9					
			iS			36.6					
			0			22.6	Δ = 29½ mi.				
		PIERCE FERRY	iP	11	06	37.8				-4	
			iS			45.1				-25	
			0			27.0	Δ = 47 mi.				
	21	BOULDER CITY	e	16	28	32.4					
			i			55.4					
			i			00.1					
		OVERTON	e	16	28	02.0					
			i		28	12.6					
			Regional shock?								
		PIERCE FERRY	iP	16	28	36.8					
			i			54.2					
			iS			57.2					
	21	BOULDER CITY	iP	16	35	35.2		+10	+18	-80	
			iS			36.2		-65	+105	+115	
			0			33.7	Δ = 5½ mi.				
			Small local shock.								
		OVERTON	e	16	35	18.4					
		PIERCE FERRY	e	16	36	49.1					
			iS			55.5	Δ = 40½ mi.				
	21	BOULDER CITY	iP	18	35	32.6		+8	+12	-65	
			iS			33.7		-30	+45	-75	
			Small local shock; Δ = 5½ mi.								
		OVERTON	no								
		PIERCE FERRY	eS	18	36	52.1					
55	21	BOULDER CITY	iP	19	38	48.3		+10	+9	-43	
			iS			51.6		+24	-16	-34	
			iM			51.9				55	
			0			43.5	Δ = 17 mi.				
			Small local shock. Epicenter 1 mi. E of Fortification Hill.								
		OVERTON	e	19	38	55.2					
			i			56.5					
			iS		39	01.5	Δ = 37½ mi.				
		PIERCE FERRY	iP	19	38	54.7					
			i			55.8					
			iS		39	01.9					
			iS			02.9	Δ = 38½ mi.				38
	22	BOULDER CITY	iP	09	13	56					
		OVERTON	e	09	13	31					
		PIERCE FERRY	eP	09	13	53					
			iP		14	03					
	22	BOULDER CITY	eP	09	41	31					
			Distant earthquake								
		PIERCE FERRY	iP	09	41	29.7					
	22	BOULDER CITY	iP	12	43	08					
			Distant earthquake								
		OVERTON	no								
		PIERCE FERRY	iP	12	43	34					
	22	BOULDER CITY	no								
		OVERTON	no								
		PIERCE FERRY	eP	21	39	18.5					
			iP			20.4					
			iS			43.9					

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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
22	iP	21	41	47.9					iP	21	41	37.5					iP	21	41	32.8				
	i		42	19.2					iP			39.0					iP			34.7				
	iS			25.2	Δ = 172 mi.				iS		42	05.1					iS			58.3				
	Epicenter near 37° N Lat., 112° W Long.								iS			08.4	Δ = 144 mi.				im		42	01.3				72
																	0		40	55.2	Δ = 131 mi.			
23	iP	07	29	57					iP	07	30	03.1					iP	07	29	57				
	Distant earthquake																							
23	e	18	17	38.5													i	18	17	46				
	e?		18	16.7													iS		18	25.5				
24	no																iP	00	06	44				
24	e	03	34	23.7					e	03	33	27					i	03	34	25				
	iS			59.4					iS		35	00.8					i			32.5				
	iS		35	04.0													iS		35	12.5	Δ = 205 mi.			
	Regional shock; Δ = 180 mi.																							
24	no																eP	06	05	50.0				
																	iS		06	10.0				
24	eP	06	23	38.2					iP	06	23	30.4					iP	06	23	27.9				-37
	iS		24	02.3				10	iS			46.2					iS			41.7				
	Regional shock; Δ = 124 mi.								iS			46.4					iM			42.3				100
									i			48.6				20					Δ = 70 mi.			
													Δ = 82 mi.											
24	eP	11	17	22.4					iP	11	17	18.4					eP	11	17	26.3				
	iP			23.6					iS			34.6					iP			27.6				
	e			38.8					iS			37.4					eS			48.8	Δ = 113 mi.			
	iS			40.7	Δ = 95 mi.				0		16	54.5	Δ = 83 mi.				iS			50.8				
	Regional shock. Epicenter near 37.0° N Lat., 115.3° W Long.																							
24	eP	18	39	16					eP	18	39	15					eP	18	39	19.5				

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No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	24	no								no								iP	23	22	57.0		-7	+5	-43
																		iS			58.3		-16	+17	-
																		iM			58.6		85	37	65
	25	iP	04	03	57.2		+6	-5	-55	no								iP	04	04	09.7				
		iS			58.1		-60	+180	+175									iS			17.8		20		
		im			58.4		150		-500																
		Small local shock. Felt in Boulder City.																							
	25	iP	16	08	35.4					i	16	08	34.0					e	16	08	38.0				
		iS		09	09.8				45	i			35.5					iP			43.1				
		Regional shock								i			40.7					iS		09	19.4				
										iS		09	05.4		80			iS			24.0				28
	25	eP	23	21	57					e	23	22	07					e	23	22	34.5				
		eS		26	06					iP			21					eS		26	26				
		Distant earthquake								iS		26	31												
	25	iS	23	37	28																				
		Second regional to distant earthquake																							
56	26	iP	01	22	30.2		+4	+5	-25	iS	01	22	41.9	Δ = 35 mi.				eP	01	22	36.3				
		iS			33.7		+15	+12	-35									iS			43.6				+13
		0			25.1	Δ = 18 mi.																	Δ = 38½ mi.		
		Very small swarm type local shock. Epicenter 7 miles NE of Boulder Dam.																							
	26	iP	10	36	00					iP	10	36	05.4					no							
		Distant earthquake								iS		39	00.6												
	26									eP	17	07	23												
										iS		08	17	Regional shock.											
	27	e	02	41	46.4					iP	02	41	55.8		-3	+10	-30	eP	02	41	59.5		+8	-5	
		iP	02	41	47.0		-4	-3	+23	iS		42	20.5		-13	+42	+80	iP		42	00.6		-27	+24	
		iP			47.4		-20	-7	-83	im			24.0		165	180		iS			28.4		+63	-50	
		iS		42	06.7		-50	-38	-122	0		41	17.2	Δ = 131½ mi.				m			29.0		350	190	
		iM			08.7		135	150										i			31.4	Δ = 148½ mi.			
						Δ = 103½ mi.																			
		Regional shock. Epicenter in or near S end of Death Valley, 35.9° N Lat., 116.6° W Long.																							

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No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	27									
	27									
57	27	BOULDER CITY	iP	09	32	37.8		+6	+4	-20
			iS			40.8		-5	+35	-62
			im			41		55	50	120
			0			33.4	Δ = 15½ mi.			
			Small local shock							
			Epicenter 9 mi. NE of Boulder Dam							
	27		iS	09	33	03.9		20	20	
			Very small local shock. May be at above epicenter?							
	27		e?	11	01	07				
	27		e	15	11	37.5				
58	27		iP	23	01	31.2		+11	+10	-33
			iS			34.4		-55	+29	+60
			im			35			55	145
			0			26.5	Δ = 16½ mi.			
			Small local shock. Epicenter 8 mi. NE of Boulder Dam.							
59	27		iP	23	01	52.3		+13	+15	-84
			iS			55.5		-37	-130	-190
			M					145		
			0			47.6	Δ = 16½ mi.			
			Small local shock. Epicenter 8 mi. NE of Boulder Dam.							
	28		iP	13	35	01.4		+8	-4	-5
			iS			02.5		+24	+26	+85
			iM			03		125	110	200
			0		34	59.7	Δ = 6 mi.			
			Small local shock							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	27		i	05	35	58.2				
	27		no							
			Very small local shock; Δ = 6½ mi.							
57	27	OVERTON	iP	09	32	42.8				-17
			iP			43.1		-3	-2	
			iS?			49.2		+8	-10	+11
			iS			49.6		+25		
			im			49.8		-25	35	-18
			Δ = 32½ mi.							
	27		iS	09	33	12.8				
			Very small local shock. May be at above epicenter?							
	27		iP	11	01	11.0				
	27		iP	15	11	38				
58	27		i	23	01	35.9				
			iS			43.1				+22
			Δ = 34½ mi.							
59	27		e	23	01	57				
			iS		02	04.2				+45
			Δ = 35 mi.							
	28		no							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
57	27	PIERCE FERRY	iP	09	32	43.7		-5	-3	-9
			i			50.5				
			i			50.7				
			iS			51.0		+60	+27	
			Δ = 37 mi.							
	27		iS	09	33	14.0				
			e	11	01	06				
			e	15	11	34.5				
58	27		iP	23	01	37.0				
			iP			37.2			-5	+3
			iS			44.3			+60	+26
			Δ = 37 mi.							
59	27		i	23	01	58.2			-26	-6
			iS		02	05.4			-28	+50
			m						+115	
			Δ = 37 mi.							
	28		eP	13	35	12.0				
			iS			20.9			+8	-5
			Δ = 43½ 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
28	iP	19	18	32.7		-6	-8	+30	no								e	19	18	43.4				
	iS			33.8		-105	+70	-37									iS			52.8				
	M			35.1				170																
	Small local shock; Δ = 6 mi.																							
28	iP	19	36	43.7		+6	-8	+15	no								iP	19	35	54.3				-4
	iS			44.9		+25	+25	+90									iS		36	03.7				-8
	im			45.2		115		200																
	Small local shock; Δ = 6½ mi.																							
28	iP	20	12	56.5	Distant earthquake												iP	20	12	59				
28	iP	20	50	08.1		-4	-4	+15	no								eS	20	50	29				
	iS			09.6		-55	+30	-29																
	iM			10				77																
28	no								iP	21	13	35.5		+3	+3	-10	e	21	13	44.7				
									iS			37.8		210	215		iS			54.6	Δ = 47 mi.			
									Small local shock; Δ = 12 mi.															
29	iP	0	15	45.7		-4	-4	+14	no								no							
	iS			46.9		-40	+30	-22																
	Very small local shock; Δ = 6½ mi.																							
29	iP	02	46	12.6		+16	+6	-8	no															
	i			13.1				-130																
	iS			13.7		+65	+90	-250																
	m					200																		
	Small local shock; Δ = 6 mi. Felt.																							
60 29	iP	03	43	06.0		+50	+10	-135	iP	03	43	14.4				+17	iP	03	43	14.7		-6	-1	-15
	iS			07.8		+810	+960	-320	iS			22.2		+20	+37	+70	iS			22.7		+75	+65	+60
	iS			08.1		1050		1110	im			29.3		175		+250	iS			23.1		+155	+145	-78
	O			03.3	Δ = 9½ mi.								Δ = 39½ mi.				iM			24		360	170	360
	Moderate local shock. Epicenter 5 mi. NE of Boulder Dam. Felt.																				Δ = 40½ mi.			

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No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
61	29	BOULDER CITY	iP	03	44	30.6		+8	-6	-17
			iP			30.9			+11	
			iS			32.4		-45	+175	+170
			im			33.2		325		
			O			27.9	Δ = 9½ mi.			
			Moderate local shock. Epicenter 2 mi. S of Boulder Dam at 48. Felt.							
	29		iS	03	46	15				45
			Very small local shock							
	29		iP	04	06	59.9		+6	+4	-13
			iS		07	01.8			+33	
			iS			02.1		+35		-61
			Very small local shock.							
	29		eP	04	11	55.8			+15	
			iS			57.9		32	40	50
			Very small local shock; Δ = 6 to 8 mi.							
	29		iP	05	01	09.2				-6
			iS			10.3		-55	+28	-44
			Small local shock.							
	29		e	07	23	27.6				
			iP			30.0				
			iS		24	11.0				
			Regional shock; Δ = 245 mi.							
	29		e	09	28	42.6				
			iS		29	20.4				
			Regional shock; Δ = 210 mi.							
	29		iP	12	35	14.9		-7	-8	+75
			iS			15.7			-140	
			iS			16.3		-285	-150	-550
			O			13.7	Δ = 7½ mi.			
			Moderate local shock. Felt.							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
61	29	OVERTON	e	03	44	40.2				
			iS			48.3	Δ = 42½ mi.			
	29		iS	03	46	15				45
			Very small local shock							
	29		iP	04	06	59.9		+6	+4	-13
			iS		07	01.8			+33	
			iS			02.1		+35		-61
			Very small local shock.							
	29		eP	04	11	55.8			+15	
			iS			57.9		32	40	50
			Very small local shock; Δ = 6 to 8 mi.							
	29		iP	05	01	09.2				-6
			iS			10.3		-55	+28	-44
			Small local shock.							
	29		e	07	23	27.6				
			iP			30.0				
			iS		24	11.0				
			Regional shock; Δ = 245 mi.							
	29		e	09	28	42.6				
			iS		29	20.4				
			Regional shock; Δ = 210 mi.							
	29		iP	12	35	14.9		-7	-8	+75
			iS			15.7			-140	
			iS			16.3		-285	-150	-550
			O			13.7	Δ = 7½ mi.			
			Moderate local shock. Felt.							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
61	29	PIERCE FERRY	iP	03	44	39.8				
			iS			47.6	Δ = 41 mi.			
	29		no							
	29		e	04	07	10.2				
			iS			16.9				18
	29		e	04	12	06.1				
			iS			12.7				
	29		no							
	29		iP	07	23	24.4				
			i			27.0				
			iS		24	23.7				
			iS			28.5				
	29		iP	09	28	34.8				
			iS		29	35.7				
	29		iP	12	35	26.6				-3
			iS			35.7		-8	8	-9
			im			41.3		20		

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1943 16.

Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
62	29	BOULDER CITY	iP	18	17	35.2		+40	+16	-140	
			i			37.0					
			iS			37.7			235		
			im			39			750		
			0			31.5					Δ = 13 mi.
			Moderate local shock. Epicenter 2 mi. NW of Boulder Dam.								
63	29	BOULDER CITY	iP	19	48	25.2		+8	+3	-17	
			iP			25.4			-8		
			iS			27.1		-30	+56		
			0			22.4					Δ = 10 mi.
			Small local shock. Epicenter 2 mi. SE of Boulder Dam.								
	29	BOULDER CITY	iP	20	41	30.3		-4	-3	-62	
			iP			30.5		+26	+10		
			iS			32.4		-75	-145		
			0			27.2					Δ = 11 mi.
			iP?			35.6					Second shock
			iS			37.4		685	485	980	
			0			32.9					Δ = 9½ mi.
			Very small local followed by moderate shock. Felt at Boulder City. Probable epicenter for the first is on the Colorado River, ten miles below Boulder Dam. Probable epicenter for the second is 5 miles SSE of Boulder Dam.								
	29	BOULDER CITY	iP	20	42	26.7					no
			iS			29.6		40	55	70	
			Small local shock; Δ = 15 mi.								
	29	BOULDER CITY	iP	20	42	41.8					no
			iS			43.8		75	70	135	
			Small local shock; Δ = 10½ mi.								
	29	BOULDER CITY	iP	20	57	05.1				-10	no
			iS			07.0			+30	-75	
			Very small local shock; Δ = 10 mi.								
	29	BOULDER CITY	iP	21	00	11.6				+17	no
			iS			13.7			+26	-58	
			Very small local shock; Δ = 11 mi.								

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
		OVERTON	iP	18	17	44.1					
			iS			51.2					
			m			54				115	
			Δ = 40½ mi.								
		OVERTON	iP	19	48	42.0		15	8	20	
			Δ = 40½ mi.								
		OVERTON	iP	20	41	40.8					
			iP			45.1					
			iS			49.9					Δ = 47½ mi.
			iS			53.7		80	80	100	
			Δ = 43½ mi.								
		OVERTON	no								
		OVERTON	no								
		OVERTON	no								
		OVERTON	no								

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
		PIERCE FERRY	iP	18	17	44.1				-14	
			i			51.8		-20	+45	-25	
			iS			52.5					Δ = 44 mi.
		PIERCE FERRY	e	19	48	35.3					
			iS			42.1		-8	+10		
			Δ = 41 mi.								
		PIERCE FERRY	e	20	41	38.3					
			iP			39.8					
			iP			44.9					Δ = 41½ mi.
			iS			47.2		+22	+13		
			iS			52.3		+60	+32		
			im			54.2		130	85		
			Δ = 40½ mi.								
		PIERCE FERRY	no								
		PIERCE FERRY	no								
		PIERCE FERRY	no								
		PIERCE FERRY	no								

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF May 194 3 17.

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	iP	21	13	17.6		+30	+9	-87	i	21	13	26.2					iP	21	13	26.2				-5
	iS			19.4		-100	+35	-80	iS			34.2		-20	+35	-50	iS			34.4		+25	+30	+40
	e			14.9	Δ = 9½ mi.								Δ = 40½ mi.				m			35.0		120		140
	Light local shock; Δ = 9½ mi. Epicenter 2½ mi. SE of Boulder Dam.																				Δ = 40½ mi.			
30	i	01	28	32.6					i	01	28	46.3					i	01	28	42.5				
	iS			39.2					i		29	15.0					iS			52.3				
	e			23.0													i		29	33.2				
	Local to regional shock?																							
30	i	02	40	21.7					e	02	40	33.6					e	02	40	37.1				
	i			23.9					eS		41	29.3					iS		41	15.1				
	i		41	09.8																				
	Regional? shock																							
30	iP	05	40	07.6				+15									no							
	iS			08.5				+100																
	Small local shock																							
30	e	07	51	42.8					e	07	51	46.7					e	07	51	59.9				
	iP			45.9					iP			52.0					iP		52	03.7				
	i		52	21.2					i		52	30.4					i		52	41.4				
	Regional shock.																							
30	iP	21	30	37.2		+6	-9	+23	no								no							
	iS			38.3		-80	+58	-70																
	Small local shock; Δ = 5½ mi.																							
31	no								i	01	23	12.0			+11		no							
									iP			12.3		+9		+17								
									i			15.0												
									im			18.8		75	50	80								
									Local shock.															
									1															

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF May 194 3 13.

Time used is G.C.T.

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
31	BOULDER CITY	iP	13	49	51.0		-4	-8	-25
		i			52.5				
		i		50	03.5				
		iS			06.6		20	28	45
		0		49	29.0				
		Regional shock; Δ = 78½ mi.							
		Epicenter SW of Lake Mead							
31		eP	20	17	51.7				
		iP			52.9				
		iS		18	34.0				
		is			35.2		220	280	340
		Regional shock; Δ = 200 mi?							
31		eP	22	19	24.8				
		is		20	29.5		13	07	20
	OVERTON	i	13	50	03.6				+40
		iP			04.1		-9	+16	+30
		iS			26.8				
		i			31.4		25	22	
		Δ = 119 mi.							
		e	20	17	51.8				
		iP			53.1				
		iP			56.4				
		i		18	33.6				
		iS			39.8		700	900	800
		eP	22	19	19.6				
		iS		20	18.1		55	50	70
		Regional shock							
	PIERCE FERRY	eP	13	50	00.4				
		iP			03.7		+11	+3	+36
		i			19.7				
		is			21.6			40	
		is			22.8		115		90
		Δ = 108½ mi.							
		iP	20	17	52.9				
		i			56.8				
		is		18	52.1				
		is			57.9		175	190	210
		eP	22	19	27.4				
		eS		20	36.1				

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - - JUNE, 1943.

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

4 epicenters were located as follows:

No.	Date June	G.C.T.	Location of Epicenter
	2	03h 28m 03.0s	8 mi. NW of Boulder City, near or at mine.
65	2	07h 39m 58.7s	3 mi. SW of Boulder Dam and 3 mi. E of Boulder City.
66	2	12h 13m 19.3s	55 mi. WNW of Overton in Las Vegas Range.
67	25	07h 59m 48.3s	3 mi. SE 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 June	G.C.T.	Intensity and Description
65	2	07h 40m	II. Felt at Boulder Dam and Boulder City. Very light rumble.
	4	09h 45m	III. Felt at Boulder City, not well recorded at other stations.
	6	20h 58m	III. Felt by several at Boulder City and Boulder Dam.

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 194 3 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	eP	04	19	08.9					eP	04	19	23.1					eP	04	19	08.7				
																	eS		25	16.2				
~~64~~ 2	iP	03	38	06.2		+18	-22	+67	iP	03	38	15.9					eP	03	38	18.6				
	i			07.3					i			25.4					iS			28.6			42	
	iS			08.5		-55	+90	+246	i			27.7			24									
	im			10.5		170	200	490																
	0			03.0	Δ = 12 mi or 8 mi.																			
Small record of shock or blast. Epicenter 8 mi. NW of Boulder City near mine.																								
2									e	05	30	32.7	Distant earthquake											
65 2	iP	07	40	00.1		+9	+6	-10	i	07	40	19.1	Δ = 42½ mi.				eP	07	40	12.5				
	iS			01.1		50	130	185	i			25.2					iS			20.0				22
	m			01.4		240			i			27.2			10						Δ = 44½ mi.			
	0	07	39	58.7	Δ = 5 mi.																			
Small local shock. Felt.																								
66 2	e	12	13	38.5					iP	12	13	35.2					eP	12	13	45.3				
	iP			39.6					i			38.8					iP			46.3				
	i			40.8					i			49.2		95	100	125	iS		14	02.9		100	45	50
	iS			51.4		22	27	67	0			19.3					iS			05.4				
	iS			53.7	Δ = 66½ mi.								Δ = 56 mi.								Δ = 91½ mi.			
Local to regional shock. Epicenter NW of Overton.																								
2	iP	16	58	13.7		-5	+4	-4	no								no							
	iS			15.1		-14	+80	-110																
Small local shock; Δ = 7½ mi.																								
2	no								eP	18	40	26.4			-4	- -	no							
									iS			29.4			+20	- -								
									im			33.4			70	40 110								
									Local shock.				Δ = 15½ mi.											
2	no								i	22	19	40	Regional shock				no							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF June 1943

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	1P	12	24	51					1P	12	24	54					1P	12	24	54.5				
	Distant earthquake																							
3	eP	20	05	32.5					1P	20	05	36					eP	20	05	33.4				
	Distant earthquake																1P			36.2				
3	eP	20	59	51					1P	20	59	54					eP	20	59	54.3				
	Distant earthquake																							
4	1P	09	45	39.8		+5	+7	-33	1	09	46	23.1					1	09	46	30.1				
	1			40.2					1			28.4												
	1			40.8					1			30.3												
	1S			41.0		300	425	785	Small local shock; Δ = 6 mi.															
	0			38.0																				
5	no								1P	01	09	27.7				+12								
									1S			29.9				60								
									Small local shock; Δ = 11½ mi.															
5	1P	20	39	20					eP	20	39	53.7												
	Distant earthquake								1P			55.8												
									1		40	58.9												
									e		50	00.2												
5	1P	22	44	36.9		-9	-6	+25	no															
	1S			37.1		-180	-90	-60																
	Small local shock.																							
5	1S	22	45	24		37	20	45	no															
	Very small local disturbance																							
5	1S	22	45	22		20	08	28	no															
6									eP	01	15	30.8												
									Distant earthquake															

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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
6	BOULDER CITY	eP	01	45	03.6				
		iS			04.7		50	27	70
		Very small local shock							
6		eP	04	54	36.5				
		iP			40.1				
		iS		55	45				
		Regional shock							
6		iP	09	59	39.9		-7	+6	+40
		iS			41.2		-190	+100	-115
		Small local shock							
6		iP	10	03	28.4		-9	+8	+95
		iS			29.6		-230	+170	-700
		Small local shock							
6		i	10	05	01.0		-4	+4	-3
		iS			03.4		-24	+14	-15
		Very small local shock							
6		iP	20	58	06.8				+5
		iP			07.3			+17	-22
		iS			09.4			+40	+450
		i			10.2				
		im			10.4			-165	
		m			11.6			1580	1250
		0 -			03.0	Δ = 14½ mi.			
		Moderate local shock, probably double. Not located.							
6		no							
7		iP	19	00	10.0				
		eS		07	12.5				
		Distant earthquake							

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	OVERTON	e	04	54	40.8				
		iP			44.0				
		iS		55	24.7				
		iS			26.7			38	
6		no							
6		i			40.8				
		iP			44.0				
		iS			24.7				
		iS			26.7			38	
6		no							
6		i	10	03	47.5				
		i			52.7				
6		i	20	58	19.6				
		eP			20.9				
		i			23.7	Δ = 43 mi.			
		iS			28.3		-15	-10	-30
		Δ = 52½ mi.							
6		no							
7		iP	19	00	12.5				
		eS		07	29.5				

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	PIERCE FERRY	eP	04	54	44.8				
		iS		55	35.0			15	30
6		iP	09	49	51.5				
		iS	10	00	00.4			5	15
6		iP	10	03	39.9				
		iS			48.9		50	10	40
6		no							
6		iP	20	58	20.6				-26
		iP			21.0				
		i			27.9	Δ = 51½ mi.			
		iS			31.9		270	55	210
		Δ = 60½ mi.							
		Boulder Dam							
		iS	20	58	10.3				
		Pierce Ferry							
		e	21	50	32				
		iS			47				10
		Very small local shock; Δ = 26 mi.							

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

MONTH OF June 1943 4.

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	01	26	12.5					iP	01	26	09.5												
8									i	18	46	17.5												
8	iP	19	25	27.6				-10	iP	19	25	33.4					No records							
	iP			27.8		-9	+2		i			39.7		+8	+10									
	is			30.8		-27	+20	-33	i			41.3		+18										
	Very small local shock; Δ = 16 mi.												Δ = 37 mi.											
8	eP	21	02	06					eP	21	02	12												
	e		05	43					e		05	23												
9	e	03	07	29.6					i	03	07	19.5												
	is			48.7			-10		i			21.6												
	Regional shock; Δ = 95 mi.								is			30.7		-55	+40									
									im			31.2		130										
9	eP	03	25	48					eP	03	25	43												
9	e	04	15	19.5					i	04	15	22.4												
9	eP	07	04	30.2		+6	+5	+15	no								no							
	is			51.4		-110	+80	-95																
	Small local shock; Δ = 6 mi.																							
9	eP	18	47	11					eP	18	47	12.5	Distant earthquake											
10	iP	00	45	22.9					iP	00	45	20.2					no							
	is			49.0					iP			23.0												
	Regional shock: Δ = 130 mi.								is			50.0												
									i			53.8												
10	e	22	25	54.1				-7	e	22	25	46.1					no							
	iP			55.3		-7	+25	-50	iP			46.6												
	is		26	11.6		+40	+27	-70	i			48.0												
	is			13.5		+55	+50	-150	is			57.0		+55	-105									
	Local to regional shock; Δ = 90 mi.								i			58.3												
									i		26	00	Δ = 56 mi.											

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	iP	13	28	58.1				-13
	i		29	01.2				
	i			07.3				
	iS			40.9				
	i			44.3		30	35	55
	Regional shock; Δ = 210 mi.							
11	iP	23	18	45.7				
	i		19	03.7		35	20	35
	Regional shock; Δ = 90 mi.							
12	iP	19	22	36.2				
	iS		23	16.1				
	i			22.4			30	
	Regional shock: Δ = 200 mi.							
12	iP	23	33	24.2				
	iS			45.8			25	
	Regional shock; Δ = 100 mi.							
13	iP	03	50	38.5				
	i			41.6				
	e			55.9				
	iS			59.3		60	55	180
	Local to regional shock; Δ = 85 mi.							
13	eP	05	23	23				
13	eP	06	10	01				
13	eP	08	48	41				
13	eP	17	50	59.5				
14	e	17	21	24.5				

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	13	29	12				
eP			17.4				
iP			20.2				
i		30	01.8				
i			04.8				
i			11.2		85	58	
iP	23	18	57.2				
i		19	24.0				
iP	19	22	49.4				
iS		23	37.0				
i			41.8		75	60	
Δ = 245 mi. SW of Boulder City							
e	23	33	30.0				
iS			58.0				
Δ = 145 mi. SW of Boulder City							
iP	03	50	28.6				
iS			41.4		+90	+90	
R					290	250	425
Δ = 65 mi.							
eP	05	23	23.5				
iP			40.6				
e	06	10	06				
e	08	48	41				
iP			53.5				
no							
e	17	21	06.5				
eS		23	40.5				

PIERCE FERRY

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

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MONTH OF June 194 3 6.

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	e	17	25	18				
	is		27	39				
14	e	22	11	29				
14	eP	22	33	24.4				
	is			46.1			36	
14								
15	e	00	09	16				
15	e	05	16	25				
	es		17	46.3				
15	e	11	22	37.5				
15	iP	14	17	28.2		+38	-58	+130
	i			29.8				
	is			30.9		-130	-300	
	im					400	330	
	G			26.0	Δ = 8 mi.			
	Light local shock or blast.							
15	no							
15	iP	18	27	45				
	e		32	39				
15	iP	19	51	25				
15	iP	20	31	40				

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	17	25	30.5				
is		27	53.5				
e	22	12	14	Regional shock			
eP	22	33	29.5				
is			54		24		
e	23	06	16.5				
e	00	08	59.0				
es		10	37.5				
e	05	16	39.5				
e	11	22	37.5				
iP	14	17	37.7		-6	+2	+35
i			38.9				
i			47.7		-13	+21	
i			50.6		+25	-26	
				Δ = 41 mi.			
iP	15	30	32		+2	-7	+20
is			34		-65	-130	-35
Small local shock; Δ = 10½ mi.							
iP	18	27	47				
e		32	58				
e		37	34				
iP	19	51	27				
iP	20	31	42.5				
eP	22	12	26.5				

PIERCE FERRY

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

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1943 7.

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	08	48	25.3				
	iS			26.5			50	
	Very small local shock; Δ = 6 mi.							
16	e	11	08	07				
16	no							
17	iP	14	26	26.2			+3	
	iP			26.7				
	iS			28.8		+22	+18	
	iS			29.3		-40	+55	
	Very small local shock; Δ = 13½ mi.							
17	no							
18	e?	16	16	35.0				
	e			41.4				
	iP			43.2				
	iP			43.9		+2	-30	-35
	i			45.1				
	iS		17	21.8				
	i			23.2				
	i			26.5		170	215	340
	F		22.5		Δ = 225 mi. Regional shock			
19	e	09	18	45.5				
21	iP	16	24	27.1				
	iS			29.9		-12	+8	-25
	Very small local shock; Δ = 15 mi.							
22	iP	07	16	51.6				
	iS		17	09.2				15
	Local to regional shock; Δ = 91 mi.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
no							
e	11	07	58.5				
e	11	31	50.5				
iS		32	35				
no							
iP	19	14	58.7				
iP			59.0				
iS		15	00.6		95	150	170
Local shock				Δ = 10 mi.			
iP	16	16	49.6				
i			55.0				
i			59.5				
iS		17	39	S-P = 50 sec.			
i			43				
i			45.5		270	485	590
				Δ = 275 mi.			
iP	09	18	46				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
no							

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Bureau of Reclamation, National Park Service
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MONTH OF June 194 3 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
22	iP	15 32 26.8																
	iS	33 15.4			23													
	Regional shock		Δ = 280 mi.															
22	iP	20 01 18					eP	20 01 20										
22	iP	20 56 25.5					e	20 56 34.5										
	iS	44.1					iP	36.1										
	i	45.6		55	60	140	iS	59.5										
	Regional shock		Δ = 96 mi.				i	57 01.6		48								
									Δ = 125 mi.									
22	iP	22 11 49.9				+13	e	22 11 05.5	Δ = 48 mi.									
	iP	50.4		-5	+4	+15	e	10.6	Δ = 58 mi.									
	iS	54.9				+22												
	iS	54.2		20														
	0	42.5	Δ = 26 mi.															
	Very small local shock																	
22	iP	23 25 46.1		+28	-32	+68	i	23 25 55.9	Δ = 43 mi.				No					
	i	47.7					iS	26 06.3	Δ = 47 mi.									
	iS	48.2			+73													
	im	51.2		145	185	380												
	0	43.7																
	Small local or blast.																	
23	iP	04 22 31.5				+13	i	04 23 17.3		8								
	iS	34.1		25	+20	-45												
	Very small local shock																	
23	iP	17 29 47.5					iP	17 29 49.2										
24	iP	12 25 45					iP	12 26 46.5										
24	e	20 35 04.5					e	20 34 24.4										
							i	35 15.8										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF June 1943 9.

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
	25	eP	06	10	36.5					e	06	10	51.0					e	06	10	40.1				
		iP			40.0					e			57.1					iP			46.3				
		i			49.4					eS		11	37.8					i			57.2				
		i		11	14.6					iS			49.8					i		11	03.2				
		iS			29.0			45		i			54.3		75			iS			27.1				
		i			35.3													i			31.4				
		Regional shock																iS			39.0				
																		im			44.5			48	
	25	eP	07	18	08.3					eP	07	18	05.2					e	07	17	59.0				
		iS			48.0			24		eS			49.8					iS		18	40.8				
		Regional shock								iS			57.2		27			iS			46.2			17	
67	25	iP	07	55	51.8		+3	+6	-10	e	07	56	00.8					e	07	56	00.2				
		iS			53.5		-38	+87	-45	i			07.1					iS			07.4		-15	+8	
		m			54.4		110	140	200	iS			08.1					im			07.6		37	21	
		0			48.3	Δ = 9 mi.				i			09.0		16							Δ = 40 mi.			
		Small local shock. Epicenter 3 mi. SE of Boulder Dam.													Δ = 41 mi.										
	25	no								i	14	28	56.5				+4								
										iP			56.9		-5	-9	-20								
										iS			58.7		-70	+55									
										m		29	00.5			150	160								
										Local shock															
	25	e	19	24	48					eP	19	24	53					e	19	23	53				
		eS		26	44.5					eS		26	48					e		25	48.5				
		Regional? shock																							
	27	e	20	01	40.5					e	20	01	45					e	20	01	39.5				
	28	e	01	15	43					e	01	15	44					iP	01	15	47				
																		i		16	14				
	28	iP	15	13	58.0					iP	15	13	58.3					iP	15	14	01.5				
	29	iP	04	29	05.9					iP	04	29	07.5					iP	04	29	04.1				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF June 194 3 10.

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	1P	04	43	38.6					1P	04	43	42.0					1P	04	43	42.2				
29	1P	07	11	23.7					1P	07	11	34.6					e	07	11	35.6				
	1S			40.6		35	40	e	e			56.0					1P			37.0				
	0			00	Δ = 54 mi.				1S			57.5		16			eS		12	03.4				
	Regional shock. Epicenter probably 20 mi. Northwards of Baker, California												Δ = 119 mi.				1S			04.2		62		
																					Δ = 128½ mi.			
29	1P	09	23	55.9					e	09	23	27					e	09	23	33.5				
30	1P	11	06	48													1P	11	06	49				
30	1P	20	23	00													1P	20	23	29				

3rd Q
1943

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - - - JULY, 1943.

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

Four epicenters were located as follows:

No.	Date July	G.C.T.	Location of Epicenter
68	2	06h 13m 32s	6 miles northeast of Boulder Dam.
69	7	03h 27m 01s	Between Las Vegas Range and Sheep Range, 42 miles NNW of Boulder City.
70	10	17h 20m 51s	At Fortification Hill, 4 miles NE of Boulder Dam.
71	29	09h 45m 56s	Probably 15 miles north of Littlefield, Arizona. 46 miles NE of Overton.

No earthquakes were reported felt at either Boulder City or Boulder Dam during July. An earthquake of grade II was reported by a camper at the upper end of Lake Mead about July 21. This may or may not have been the earthquake of July 21, 4h03m.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 194 3 1.

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	04	51	49													iP	04	51	23.5				
1	iP	16	19	43.5		+4		-16	i	16	19	54.7					iP	16	19	55.0		+5		
	iP			44.2		-7	-3	+20	i			58.7					iP			57.1		+14		
	iP			48.3					is		20	16.6					i		20	04.9				
	i			49.4					i			19.9		65			i			18.6				
	is		20	00.7		-34	+60	+65	0		19	19					is			23.5		+50	+35	
	is			02.5		-32	115	-75					Δ = 118.5 mi.				im			25.2		170	145	
	im			03.4		130	185	260													Δ = 133.5 mi.			
	Regional shock; Δ = 87 mi. Probable epicenter 30 mi. NNW of Baker, California																							
1	iP	18	06	56.4		-3	-6	-18	no								e	18	07	16				
	is			57.4		+12	-27	-27																
	im			57.7		60	70	100																
	Small local shock; Δ = 5 mi.																							
1	iP	23	21	12.2		+25	-37	+85	i	23	21	19.2					iP	23	21	24.3				
	i			14.0					i			21.7					iP			24.8				
	is			14.4		-45			is			32.4		20			is			34.5				
	is			14.9		+90	+95						Δ = 49 mi.				i			36.6		45		
	i			17.4				465													Δ = 53 mi.			
	0			8.9																				
	Blast or small local shock. Δ = 11½ mi.																							
68 2	iP	06	03	35.3		+7	+4	-17	e	06	03	42.2					iP	06	03	42.8				
	is			37.7		-20	+55	+70	is			48.5					is			50.5				
	im			38.3		130		350	i			51.0		15			i			51.0		75		
	0			31.8	Δ = 12½ mi.								Δ = 34½ mi.								Δ = 39 mi.			
	Small local shock. Epicenter 6 mi. NE of Boulder Dam.																							
2	e	06	55	33					i	06	56	01					e	06	54	59.4				
	e		56	22					i			38					is		55	11.2				
	e			31					i			50					i			11.6		23		
																	i		56	08.0		2nd shock		
																	is			19.2		30		
																	is			35.0		3rd shock 30		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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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
2	iP	21	02	39.6		+3	+6	-7
	iS			42.1		-12	+24	+37
	iM			43.0		50	40	170
	O			35.9	Δ = 13 mi.			
	Very small local swarm type shock.							
4	eP	09	59	23.3				
4	eP	11	22	47.4				
	iP			48.3				
	iS		23	19.5				
	iS			21.7			18	30
	Regional shock.				Δ = 170 mi.			
4	no							
	Regional shock							
4								
4	e	18	13	46.7				
4	iP	21	54	25.7				
	i			27.2				
	i			33.0				
	iS		55	12.5				
	iS			15.5				25
	i			26.0				
4	no							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
no							
eP	09	59	22.3				
e	11	23	07.2				
iS			39.2				
iS			45.2				40
				Δ = 210 mi.			

No record

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
no							
eP	09	59	22.8				
e	11	22	51.7				
iP			55.5				
iS		23	31.0				
iS			36.1				35
				Δ = 200 mi.			
eP	13	02	21.8				
iP			23.1				
iS			41.6				20
				Δ = 95 mi.			
eP	15	20	43.1				
iP			49.6				
iS		21	22.1				
i			27.3				25
e	18	07	00.3				
e		13	42.6				
iP	21	54	35.5				
i			38.8				
i			46.1				
iS		55	31.3				
iS			32.6				
iM			34.1				
e	22	33	36				
e		34	40				

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MONTH OF July 194 3 3.

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
	5	no																e	13	28	52.5				
	5	e	13	59	20.2					no								e	13	59	25.0				
	5	i	16	32	00.5					e	16	32	14.7					e	16	32	32				
		e		33	23.0													e			44				
																		es		34	03.5				
	5	iP	21	18	38.8					iP	21	18	01.6					iP	21	18	56.0				
	6	iP	06	11	48.0				+12	no															
		is			49.3				50																
		Very small local shock; Δ = 7 mi.																							
	6	iP	09	50	17.8													i	09	50	16.5				
	6	iP	21	46	58.7		+3	-5	+24	no								iP	21	47	06.0				
		i		47	01.0		-22	+20	+22									is			13.9		25		25
		i			01.3		-30	30	-57														Δ = 40½ mi.		
		Very small local shock; Δ = 12 mi.																							
	6	iP	23	23	18.9		+8	-13	+24	no								iP	23	23	30.6				
		is			20.9		-23		-28									is			41.1		+5		
		i			21.1		65	12	+68									im			41.5		20		16
		im			23.7		35	85	170														Δ = 53 mi.		
		Small local shock or blast.																							
	7	iP	01	20	35.7		-11	+20	-72	no								iP	01	20	17.0				
		is			36.8		+30	+36	-85									is	01	20	56.2		-13		-12
		Very small local shock																							
69	7	iP	03	27	15.6		+12	-30	+67	i	03	28	14.2				-14	iP	03	27	22.1				-16
		is			25.4		+30		-50	iP			14.4		-15	+6	-100	iP			22.3		-11	-5	-20
		is			25.6			+27	-60	iP			14.7		+24	-15	+165	iP			23.5		+60	+25	
		i			26.1		+70	+15	+100	i			22.2			+30		is			36.4		-40	-30	-12
		im			27.0		75	65	160	is			23.2		-180	-210	-320	is			37.1		+ 245	+40	
		0			01.2	Δ = 50½ mi.				m			24			330		im			38.2			90	270
		Small local shock. Epicenter between Las Vegas Range and Sheep Range								0			01.1	Δ = 46½ mi.				0			01.0	Δ = 74 mi.			

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MONTH OF July 1943 4.

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
7	iP	12	58	45.8					e?								e	12	58	48.3				
9	e	07	32	54.9					e	07	32	47.3					e	07	32	53.1				
	eS		33	53.1					eP			49.8					iP			57.9				
	iS			55.6		12	7	20	eS		33	45.9					iS		34	00.4				
	0		31	10.7	Δ = 337 mi.				iS			49.4		30			i			09.2		40		
	Regional shock. Epicenter near 40° N Lat., 118° W Long. (Shasta Δ = 250 mi.)												Δ = 324 mi.								Δ = 353 mi.			
9	iP	18	36	47.9		+2	-6	+8	iP	18	36	51.7				-9	iP	18	36	42.0		+18	-16	-80
	iP			48.9		-8	+7	+20	iP			52.6					i			33.8				
	iS		37	09.4		+13	-20	+28	iP			58.4			-22		iS			59.1		-110	+65	
	iS			11.2		-30	+100	-100	i		37	18.3					i		37	01.6		520	+360	310
	0		36	12.5	Δ = 110½ mi.				iS			19.4				-65					Δ = 98 mi.			
	Regional shock. Epicenter South of Pierce Ferry and near Big Sandy River.								iS			23.7		-35	-50	+110								
													Δ = 136.5 mi.											
9	iP	23	36	06.3					iP	23	36	36.7					iP	23	36	11				
10	e	03	13	17.3				-5	e	03	13	21.7					eP	03	13	26.5				
	eP			20.9		-12		-37	iP			31.3					i			36.6		+30	+17	
	iP			23.5		-23	+7	-95	i			33.9					iS		14	17.8		-7	-50	
	iS			56.7		+10	+26		iS		14	10.1		-50	70	160	im			18.8		215	300	60
	iS			58.7		50	75	125					Δ = 230 mi.								Δ = 260 mi.			
	0		12	10.5																				
	Regional shock; Δ = 220 mi. SE of Lake Mead area																							
70 10	iP	17	20	54.4		+4	+20	-16	e	17	21	01.5					iP	17	21	02.2		-2	+5	-6
	iS			56.9		+25	+45	+40	i			05.1					iS			10.0		-10	+45	
	im			57.3		95	65	230	i			16.3					im			10.3		55	95	
	0			50.8	Δ = 13 mi.				i			21.3									Δ = 40 mi.			
	Small local shock. Epicenter at Fortification Hill 4 mi. NE of Boulder Dam.												Δ = 37½ mi.?											
11	iP	02	23	15.6					iP	02	23	18.9					iP	02	23	20.0				
	ipP		24	00.0					ipP		24	03.2					ipP?		24	06.2				

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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
12	iP	10 14 11.2		-7 +6 -28	no				no			
	iS	12.2		-13 +57 -18								
	Small local shock.											
13	iP	07 11 43.5		+12 +14	e	07 11 48.6		-2 +8 +25	no			
	iS	46.5		+10 +43	iP	48.8						
	iS	46.7		-90	iS	54.6		+8				
	im	46.9		110 90	iS	55.6		-23 -20 -30				
	Small swarm type local shock.											
13	iP	11 37 08.5		+10	iP	11 37 12.5		+20	no			
	iS	11.6		+42	iP	12.9		-3 +11				
	im	12.0		70	iS	19.6		-25 -23				
	Small local shock											
13	e	12 12 48.4			no				no			
	iS	50.7		20 25								
	Very small local shock											
13	iP	12 30 15.6		+16 -7	no				no			
	iS	16.6		-20 +150								
	Small local shock											
14	iP	01 33 58.8		-146 +195 +50	Record missing				iP	01 34 09.8		+4
	iS	34 00.1		-600 -265 -400					iS	18.8	20	65
	im	34 00.6		900								
	F	34.7										
	Moderate local shock; not reported felt.											
15	iP	21 39 06.0			i	21 39 14.5			iP	21 39 13.5		
	e	40 26.1			i	16.6			i	40 36.0		
	iS	34.9			iS	40 48.8	Δ = 560 mi.		iS	45.4	Δ = 545 mi.	
	Regional shock; Δ = 520 mi.											
16	iP	17 10 14.6		-5 -20 -40	no				no			
	iS	15.4		-120 -85 -120								
	Small local shock											

International Seismological Centre

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MONTH OF July 1943 6.

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
17	e	05	03	02.6					no								no							
	iS			49.3		23	28	40																
	Regional shock																							
17	e	05	54	40.4					no								no							
18	e	02	06	34.5													e	08	06	32				
18																	iP	08	12	32.6		-18	+6	-58
																	iS			34.8		-55	+18	105
																	iM			35.3		90	40	
																	Small local shock					Δ = 11½ mi.		
19	eP	16	12	17.5																				
	iS			18.1		2.7 mm																		
	Small local shock				Δ = 3 mi.																			
19	i	22	49	23.2													e	22	47	16.3				
	iS		50	03.7													iS		49	51.6				
	Regional shock																iS		49	56.6				
20	no								iP	17	03	22.6		+9			no							
									iS			24.5		-130										
									Small local shock				Δ = 10 mi.											
21																	e	04	01	56.8				
																	iS		02	14.0		20		
																					Δ = 85 mi.			
21	iP	04	03	30.1					eS	04	03	42.6					iP	04	03	24.3				
	iS			52.4				30						Δ = 92 mi.			iS			41.4		115		
	Regional shock Δ = 114½ mi.																				Δ = 87½ mi.			
	Epicenter NE of Lake Mead area. Felt? at upper end of Lake Mead.																							
21	eP	04	25	10.5													eP	04	25	05.8				
21	i	19	04	55.3													iP	19	05	00.7				
	iS			57.4			30										iS			07.1				45
	Very small local shock. Δ = 11 mi.																				Δ = 33 mi.			
21																	iP	22	52	09.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 193 7.
Time used is G.C.T. 194

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	e	00	13	22.0					e	00	14	46.5					iP	00	13	16.4				
	eS		15	07.2													iS		15	23.4				
	Probable regional shock																							
22																	iP	02	18	27.2				
22																	eP	05	05	35.4				
																	eS		06	37.7	Regional shock			
22	iP	06	45	16.9		-5	-4	+7	e	06	45	20.6					iP	06	45	27.1				
	iS			34.6		-8	-6	+18	eS			39.4					iS			52.7				-13
	iS			37.2		-16	-12	+15	iS			40.3		-20										
	Regional shock.				Δ = 91 mi.																			
22																	iP	07	23	21.5				
																	e		27	09.8				
22	e	08	26	56.1					e	08	26	52.4					iP	08	26	43.2		+127		+225
	i		27	00.9					i			59.4					S			?		680		600
	iS			02.7				7	i		27	03.0				20	Local shock.				Δ ca. 5½ mi?			
	0				Δ = 42½ mi.				0			42.2	Δ = 36 mi.											
	Very small local shock. Probable epicenter middle E. side of Greggs Basin.																							
22																	iP	08	38	59.1		-6	-2	-22
																	iS		39	00.2		-135	+20	-52
																	Local shock.				Δ = 6 mi.			
22																	iP	12	43	01.0				
22	no								e	18	17	18.5					e	18	17	16.8				
									i			47.9					iP			18.2				
																	iS			46.8				
																	i			50.3				30
23	iP	09	17	29.3					iP	09	17	40.2		+10			iP	09	17	38.5		-2		-7
	iS		18	45.2					iS			58.1		55			iS			56.3				-40
	i			46.3				17																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1943 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
23	iP	15	12	18.2					iP	15	12	18.8					iP	15	12	16.5				
	i		15	43.9					i		16	39.0					iS		16	38.8				
23	iP	23	04	49.6			+4										iP	23	04	55.2				
	iS			51.8			42										iS		05	01.4				
	Very small local shock.																i			2.1				60
					Δ = 12 mi.?																Δ = 32 mi.?			
24	iP	06	39	32.6					iP	06	39	38.0					iP	06	39	25.3		+7	-13	-125
	iS			54.1			32		iS		40	03.9					iS			43.7		210	145	170
	Regional shock.				Δ = 105 mi.								Δ = 125 mi.								Δ = 90 mi.			
24																	iP	23	35	44.5				
26																	eP	02	31	08.6				
																	iP			09.1				
																	iS			30.6				
																	Regional shock							
26																	e	13	58	48.0				
																	iP			52.1				
26	iP	20	01	08.0		+10	-9	-43									iP	20	01	14.2		+6		
	iS			10.8		-20	+85	-35									iS			21.8		-40		
	im			11.0		83		170													Δ = 39 mi.			
	Small local shock.				Δ = 14½ mi.																			
26	eP	20	14	53.5		+3	-1	-19									iP	20	14	59.9		-5		
	iS			56.2		+33	+30	-15									iS		15	07.3		22		
	Very small local shock.				Δ = 14 mi.																Δ = 38 mi.			
27	iP	01	37	33.7		+4	-9	-27									iP	01	37	40.0		+7		
	iS			36.5		-22	+73	-48									iS			47.6		-42		
	im			36.6		80		170													Δ = 39 mi.			
	Small local shock; Δ = 14½ mi.																							
	Epicenter several miles SE of Boulder Dam.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 194 3 9.

Time used is G.C.T.

Station	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY		27								
		27	eP	10	32	32.4				
			iP			33.6				-13
			iS			51.1			17	45
			Regional shock				Δ = 90 mi.			
		27	iP	21	44	47.2				
			iS		45	30.1				
			Regional shock.				Δ = 230 mi.			
		28	iP	04	11	16.8				
		28	eP	06	37	30.8				
			eS		39	53.5				
			Regional shock.				Δ = 470 mi.			
		29	eP	03	10	03.3				
			iP			10.0				
			i			32.7				
			iS		16	48.0				
	71	29	i	09	46	20.2				
			e			22.1				
			iS			37.7	Δ = 60½ mi.			
			Local to regional shock. Probable epicenter 15 mi. N of Littlefield, Arizona (on Utah line).							
		29								
		29	iP	20	28	33.4				
			iS			34.7		45	30	85
			Very small local shock. Δ = 7 mi.							

Station	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON		27	iP	10	32	00	No time			
			iS			12.8	correction			
							Δ = 66 mi.			
		28								
		28								
		29								
	71	29	iP	09	46	30.0	No time			
			iS			39.0	correction			
							Δ = 46½ mi.			
		29								
		29								

Station	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY		27	iP	09	54	04.0				
			iS		55	10.3				
		27	iP	10	32	34.3				
			iS			54.9				-35
			iM			57.9				180
							Δ = 100 mi.			
		27	eP	21	44	26.0				
			iP			35.6				
			i		45	04.6				
			iS			14.6				
			iS			17.8	Δ = 210 mi.			
		28	eP	04	10	50				
		28	e	06	36	44.5				
			iP			50.7				
			iS		38	01.6				
			iS			04.1	Δ = 450 mi.			
		29	iP	03	09	58.2				
			i		10	01.8				
		29	iP	09	46	14.6				
			iS			27.1				165
			O			56.1	Δ = 64½ mi.			
		29	iP	11	50	28.0				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1943 10.

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
30	eP	01	10	51.5	Distant earthquake			
30	iP	02	37	20.7		-7	+3	+16
	iS			23.6		62	52	105
	Small local shock							
30	e	18	24	42				
	e		25	45				
	eS		26	26				
30								
31								

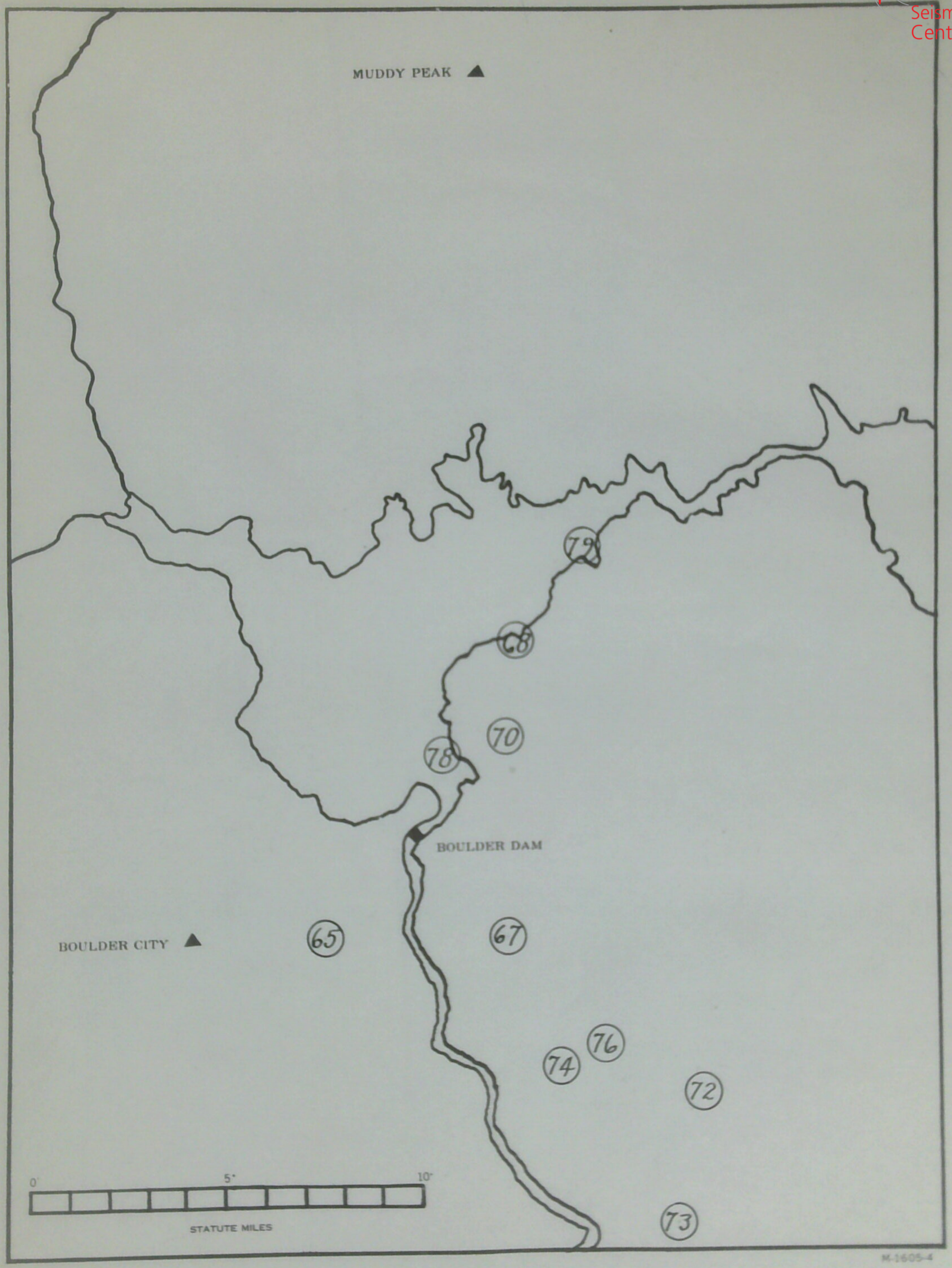
OVERTON

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	01	10	45.5				
no							
e	18	23	41.6				
iP			51.6				
i		25	16.0				
i			39.1				
iS			53.4				
iP	22	44	50.0				
iS			51.0		120		
Very small local shock. Δ = 5½ mi.							
eP	03	30	51				

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TENTATIVE EPICENTERS IN THE LAKE MEAD REGION

JUNE, JULY, AND AUGUST, 1943.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT - - - - - - - -AUGUST, 1943.

The stations at Boulder City, Boulder Dam, Overton, and Pierce Ferry operated on routine schedule throughout August. On August 20th the Wood-Anderson seismograph was moved from Boulder City to Boulder Dam, replacing the survey-meter formerly at Boulder Dam.

Eight epicenters were located as follows:

No.	Date Aug.	G.C.T.	Location of Epicenter
72	8	4h 53m 54s	Ten miles SE of Boulder Dam.
73	10	18h 25m 23s	Eleven miles SE of Boulder Dam.
74	13	6h 28m 57s	Seven miles SSE of Boulder Dam.
75	15	0h 22m 13s	West of Gregge Basin.
76	18	22h 53m 45s	Seven miles SE of Boulder Dam.
77	21	6h 55m 07s	In Gregge Basin.
78	28	12h 06m 39s	Two miles NNE of Boulder Dam.
79	29	7h 13m 57s	Nine miles NE of Boulder Dam at W. end of Boulder Canyon.

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 Aug.	G.C.T.	Intensity and Description
4	21h 49m	II Felt by one person. At Boulder City.
4	22h 16m	II Felt by one person, in both cases the disturbance was very light. At Boulder City.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF August 1943 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	eP	09	27	19.2					time doubtful								eP	09	26	22.8				
																	eS		23	36.8				
1																	iP	14	29	30.5				
1	e	16	31	53.1													e	16	30	55.5				
	i	16	42	33.6													iP			56.8				
																	e		41	07.6				
																	iS			09.7				
1	eP	21	00	38.4			-3																	
	iS			39.1		-16	+40																	
	Very small local shock; Δ = 4 mi.																							
2	iS	21	07	30.0													iP	21	07	04.3				
																	iP			07.1				
																	iS			21.3				
																	iS			23.1		50		
2	iS	21	10	24.0													iP	21	09	59.5				
																	iP		10	00.2				
																	iS			15.3				
																	iS			17.1		35		
2	iP	23	17	04.8		-65			iP	23	17	15.3					iP	23	17	16.7				
	i			05.8					iP			16.2					iS			27.0		85		
	iS			07.0		-310			iS			24.6					0			01.4	Δ = 53 mi.			
	iS			07.4			-365		iS			25.6												
	im			09.8		365	515		0			01.6	Δ = 48 mi.											
	0			01.6	Δ = 11½ mi.																			
	Local shock or blast.																							
3	iS	02	49	39.2													iP	02	49	13.8				
	0		48	49.0	Δ = 104 mi.												iP			15.5				
																	iS			30.6	Δ = 87 mi.			
	Regional Shock; epicenter probably 10-20 miles NE of Mormon Peak																iS			32.3		60		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF August 1943

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	iS	06	55	59.0													iP	06	55	33.2				
	0		55	07.8	Δ = 106 mi.												iP			35.0				
	Regional shock																iS			50.4	Δ = 88½ mi.			
																	iS			52.5	75			
3	iP	16	48	16.9		+5	+6																	
	iP			18.1		+25	+30																	
	Very local shock				Δ = 6½ mi.																			
4	iP	21	49	09.3		-25	-13	-11	iP	21	49	17.7		-5										
	iS			12.1		-540			iP			18.1		15										
	im			15.5		1220	1440		i			19.6		30										
	0			05.2	Δ = 15 mi.				iS			25.3		120										
	Moderate local shock; felt in Boulder City								i			26.7		165										
									0			06.5												
									0			05.0												
4	iP	21	51	07.7		-5	-4	-5	iS	21	51	54.0	Δ = 40 mi.											
	iS			09.6		+135	+110	-70																
	Small local shock; Δ = 10 mi.																							
4	iP	22	16	52.0		-75	+33	+310	i	22	16	30.6												
	iS			54.7		-385			iP			30.8												
	im			58		1280	1700		iS			38.0												
	Light local shock; Δ = 14 mi. felt in Boulder City.								iS			39.1	Δ = 43 mi.											
4	iP	22	19	43.2		+6	-8	-17																
	iS			45.9		+100	+80	-70	iS	22	20	00.3	Δ = 44 mi.											
	Small local shock; Δ = 14 mi.																							
4	iS	22	22	00			30																	
	Very small local disturbance.																							
4	iP	22	48	12.4		+17	-16	-75	iP	22	48	21.6												
	iS			15.2		-350	+400	-1000	i			22.5												
	im			17		390	450		i			28.2												
	Light local shock; Δ = 13½ mi.								iS			29.3												
									i			31.6	Δ = 47 mi.											

International Seismological Centre

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

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	04	27	01.6					iS	04	27	18.6												
	iS			04.3			33						Δ = 44 mi.											
	Very small local shock; Δ = 14 mi.																							
5	eP	05	14	19.3					e	05	14	30.1												
	i			36.5					iS		14	53.6			12									
	iS			38.3			30																	
	Very small local shock; Δ = 88 mi.																							
5	iP	06	43	15.7		-25	+15	117	iP	06	43	24.1			+10									
	iS			18.5		920	1040		iP			24.5												
									iS			31.1												
									iS			32.3												
	Light local shock; Δ = 14½ mi.												Δ = 40½ mi.											
5	eP	07	16	52.8																				
	iS			55.6			30																	
	Very small local shock; Δ = 14½ mi.																							
5	iP	10	31	56.5				+13	e	10	32	02.1												
	iP			58.0					iS		32	13.3			30	Δ = 43 mi.								
	iS			59.3		+100	+95	175																
	Small local shock; Δ = 14 mi.																							
5	iS	16	07	28.6			45																	
																		Boulder Dam						
5	iP	16	59	31.1		-100	+35	+325	iP	16	59	39.2			+11	Time ?	iP	16	59	31.0				
71A	iS			33.9		-350			i			39.7					iS			33.0				
	im			38.0		7250	1500		i			46.8					0			28		Δ =10 mi.		
	F	17	01	.8	Δ = 14½ mi.				iS			47.8			290									
	0			26.0					F	17	03	.2												
									0			26.8	Δ = 44½ mi.											
	Local shock; ESE of Boulder City and SE of Boulder Dam, probably near 72.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF August 1943 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
5	iP	17	59	00.6		-11	+6	+42	iS	17	59	17.3		+8										
	iS			03.4		+55	+50	+32	im			18.1												
	im			07.1			85	120							22									
	Small local shock; Δ = 14½ mi.																							
	iP	21	35	11.6																				
5	iS	21	35	13.5		+38	+30	-18																
	i			14.6																				
	Very small local shock.																							
6	iP	04	39	37.6				+15	iS	04	39	53.9												
	iS			40.4			+34			Δ = 41 mi.														
	i			41.5																				
	Very small local shock; Δ = 14½ mi.																							
6	iP	06	52	28.4				-6																
	e	06	52	31.4																				
	iS			32.5			-32	-30																
	Very small local shock Δ = 21 mi.																							
6	e	08	04	06.8					e	08	04	20.8												
	e	08		10.5					iP			25.8												
	iS			50.4					iS		05	13.6												
	i			57.4					i			26.2			30								
	Regional shock.																							
6	e			52.6					e	08	08	37.1												
	e	08	08	54.1					iP		08	42.1												
	iP			56.0					iS		09	24.1												
	iS		09	35.1					i			29.0												
	iS			40.8																				
	Regional shock.																							
6	iP	13	47	35.3		-42	+47	+160																
	iS			36.3		-26	+34																	
	im			36.5		85	120	215																
	Small local shock.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF August 1943 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
	8	e	08	36	40																				
72	9	e	4	53	54.5				+11									1P	04	54	00.4				
		is			57.2		+63	+40	-24	is	04	59	11.4					is			07.9				
		im			58.0			40	80			Δ = 43½ mi.								Δ = 36½ mi.					
		0			50.5																				
		Very small local shock; Δ = 14 mi. Epicenter 10 miles SE of Boulder Dam.																							
	9	1P	05	30	58.3		+28	-38	+35	1P	05	30	57.3					1P	05	31	04.3				
		1P		31	06.2		-22	+80		1P		31	00.3					i		31	10.8				
		i		31	07.0			+575		i			06.1												
		is			51.4		1150	1200	1110	is?			43.7												
		F		49		Δ = 260 - 320 mi.				is		31	52.2	Δ = 250 mi.?											
		Regional shock, local to Bishop, Calif.										32	02.4		1200										
	9									e	06	28	15.7					e	06	27	57.7				
										es		29	02.4					is		28	45.4				
										Regional shock.															
	9	i	07	44	38.5					e	07	45	10					e	07	44	37.5				
		is		45	22.9					is		45	54					i			44.8				
		Regional shock																i			49.2				
																		is		45	36.8				
	9	1P	23	58	36.2		-7	+4	+20	e	23	58	46.8					1P	04	00	37.4				
		is			39.0		+70	+63	-50	is			53.5												
		i			42.7				140																
		F		59.4																					
		Small local shock																							
	10	1P	04	43	40.6					e	04	43	40.1					e	04	43	39.9				
		is		44	27.0					1P			42.0					1P			40.7				
		Regional shock								is		44	29.4					is		44	40.5				
										i			33.5												
	10	es	09	06	11.6					1P	09	05	27.2					e	09	05	35.9				
										is		06	11.7					is		06	25.6				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF **August** 1943 **6.**

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

No. Date	Phase	Time h	m	s	Period T	Trace Amp' ude E	N	Z
BOULDER CITY								
10	eS	09	22	49.1				
10	eP	12	26	30.1				
	iS		27	59.8				
	Regional shock							
10								
10								
	Regional shock							
10	iP	15	23	12.5				
10								
73 10	iP	18	25	22.7		-8	+6	+38
	iS			25.6		+165	5+150	
	i			27.5		110	175	
	F		26.1					
	0			18.4	Δ = 15 mi.			
	Small local shock. Epicenter 11 mi. SE of Boulder Dam.							
10	iP	23	09	32.2		+18	-25	+55
	iS			34.7		-100	+90	
	i			36.5		125	210	
	F		10.2					
	0			28.5	Δ = 13 mi.			
	Local shock or blast.							

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON							
iP	09	22	28.6				
iS			42.4				
iP	12	26	21.5				
iP			24.2				
iS		27	43.4				
iS			51.7				
eP	13	37	05.7				
iS		38	30.7				
Regional shock							
iP	15	05	32.5				
iS		06	57.0				
i	15	23	10.1				
iP		23	15.7				
eS		31	09.5				
Distant earthquake							
iS	18	25	40.9				
Δ = 47 mi.							
iP	23	09	41.6				
iS			52.2				+20
Δ = 49½ mi.							

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY							
iP	09	22	17.7		+17		
iS			28.3		-135		
e	12	26	35.7				
iP		27	00.3				
iS		28	28.4				
e	13	37	14.5				
i			18.5				
iS		38	43.8				
e	14	07	09.6				
		08	10.5	Regional shock			
iP	15	05	41.8				
iP			45.7				
iS		07	43.9				
eP	15	23	15.7				
eS		31	18.9				
iP	15	46	30.1				
e		54	13.3				
iP	18	25	29.4				
i			30.0				
i			36.1				
iS			36.8	Δ = 38½ mi.			
iP	23	09	44.1				
iS			54.4				
Δ = 54 mi.							

International Seismological Centre

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

MONTH OF **August** 1943 **7.**

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	08	12	00.1		-8	+10	-38																
	iS			1.3		+33	30	100																
	F		12.2																					
	Very small local shock $\Delta = 6\frac{1}{2}$ mi.																							
12	e	05	02	46.4					e	05	02	46.3												
									iP			49.0					iP	05	02	20.8				
12	e	05	36	48.3					e	05	35	10.3					e	05	35	06.5				
	e		38	25.2					eS		37	58.8					eS		38	15.8				
12									e	08	29	10.3					e	08	30	10.9				
12	iP	15	00	29.0				+25	e	11	26	40.8					e	11	25	38.2				
	iS			30.0		+115	-30	+40																
	Small local shock, $\Delta = 5$ mi.																							
12	iP			54.7																				
	iS	15	36	55.7			+20	Very small local shock $\Delta = 5$ mi.																
12	iP	16	31	19.0																				
	iS			20.0			45																	
	Very small local shock, $\Delta = 5$ mi.																							
12	iP	16	32	59.0																				
	iS		33	00.4			45																	
	Very small local shock, $\Delta = 7$ mi.																							
12																	iP	20	53	42.0				
																	iS			52.5		20		
																	Very small local shock $\Delta = 54$ mi.							
13									e	00	13	59					e	00	13	53.2				
									Regional shock								iP		14	02.9				
																	iS		15	02.3				
																	iS			09.0				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **August** 194**3** **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
74.	13	iP	06	28	57.4		-11	+7	+37	e	06	29	05.5					iP	06	29	05.3		+10		
		iS		29	00.3		+195	+180	-115	iP	06		06.1					iS			12.8		+110		
		im			01.7		170	250	325	iP			07.3					F		31.0		Δ = 41 mi.			
		F		30.0						ei			12.7												
		O			53.1	Δ = 15 mi.				iS			14.6		-55										
										im			14.9												
													Δ = 45 mi.												
		Small local shock, Epicenter 7 miles SSE of Boulder Dam.																							
	13									eP	07	49	54.3					e	07	49	50.7				
	14	i	08	20	49.3					eP	08	20	53.0					iP	08	20	53.8				
	15	eP	00	21	32.3					eP	00	21	28.0					iP	00	21	26.7				
75.	15	eP	00	22	13.1					iP	00	22	12.4					iP	00	22	06.4		-6		-45
		iS	00	22	20.0					iS		22	19.3					iS			08.7		-250		+150
		O			02.9	Δ = 35½ mi.				O			02.2					O			03.0	Δ = 12 mi.			
		Small local shock, Epicenter W of Gregg Basin																							
	15																	iP	02	42	42				
	16	e	07	06	03.7					e	07	05	48.3					iP	07	05	37.0				
					06.1	Δ = 85 mi.				e		06	02.7					iS			46.6		50		
																		O			22.9	Δ = 49½ mi.			
		Local to regional shock, probable epicenter in Colorado Canyon N. of Peach Springs.																							
	16	eS	12	50	20.2																				
		iS			20.8	Δ = 180 mi.				iP	12	49	46.2					eP	12	49	34.2				
										iP			48.4					iP			35.9				
										i		50	16.7					iS		50	01.8		75		
										iS			21.0					O		48	53.5	Δ = 14½ mi.			
										i			28.1	Δ = 180 mi.?											
		Regional shock, probable epicenter S of San Francisco Mt. Arizona.																							

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MONTH OF August 3 9. 194

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	18	53	40.3				
																	iS		54	36.4				20
																	Regional shock							
																	iP	04	37	42.2				
																	i		38	18.7				15
																	Regional shock.							
17	eP	15	52	02.3					i?	15	52	27.0	train disturbance				iP	15	51	55.6				
	eS			37.5					iS		53	00.2					iP		52	11.2				
	iS			41.4		35	38		iS		53	02.7		80			eS			50.0				
														Δ = 330 mi.			iS			55.7	Δ = 310 mi.			55
	Regional shock Δ = 285 mi. Epicenter SW of Boulder City.																							
17	iP	23	06	01.8		+16	-35	+27	iP	23	06	11.5												
	iS			04.5		-65	+110	+110	iS			21.5	Δ = 49½ mi.				iP	23	06	13.6				
	0		05	57.8	Δ= 14 mi.												iS			24.2				28
	Small local shock or blast.																				Δ = 55 mi.			
18	iP	00	30	42.6		+10	-7	-34	iP	00	30	52.1		+10	-4		iP	00	30	53.7				-7
	iP			43.2			-12		iP			54.4		-38			iP		30	55.8				-245
	i			58.2		-18	-40		i		31	15.6		+70	-80		iS		31	22.3				+290
	iS			59.5		+60	+195		iS			16.8		+105			im			25.8				790
	im		31	01.4		470	605	440	im			17.9		-200	250						Δ = 133½ mi.			
	F		34.4						Δ = 121 mi.															
	0		30	18.0	Δ = 86 mi.																			
	Regional shock, epicenter near 35.6° N. Lat. 116.3° W. Long. S. Death Valley.																							
18	iP	16	39	00.8													iP	16	38	58.5				
18																	iS	22	51	54.8				
																	Local to regional shock							

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MONTH OF August 3 10. 194

Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
76	18	BOULDER CITY	iP	22	53	45.3		-6	+4	+15	
			iS			48.0		+40	+40	-32	
			0			41.3	Δ = 14 mi.				
			Very small local shock, Epicenter 7 miles SE of Boulder Dam.								
		OVERTON	iS	22	54	02.3	Δ = 43½ mi.	14			
		PIERCE FERRY	iP	22	53	51.7					
			iS			59.1					
			iS			59.8	Δ = 38½ mi.				
	19	OVERTON	eP	08	59	46.2					
			iS	09	00	04.8	Δ = 85 mi.	8			
		PIERCE FERRY	iP	08	59	47.6					
			iS	09	00	07.1	Δ = 95 mi.				
			Regional shock, Epicenter probably on Hurricane Fault near Pintura, Utah.								
	19	OVERTON	eP	10	51	57.5					
		PIERCE FERRY	iP	10	51	57.5					
	19	PIERCE FERRY	iP	23	42	50.4					
	20	PIERCE FERRY	iP	03	10	53.0					
			iP	04	48	00.5					
			iS			01.7	Δ = 6½ mi.			-100	
			local shock								
	21	PIERCE FERRY	iP	06	54	39.5					
			iS			41.0	Local shock, Δ = 7½ mi.			-110	
77	21	BOULDER CITY	e?	06	55	07.5					
			iS	06	55	15.4	Δ = 41 mi.	+6	+4		
			Very small local shock, Epicenter in Greggs Basin, 7 mi. W of Pierce Ferry.								
		OVERTON	eS?	06	55	12.9	Δ = 36 mi.				
		PIERCE FERRY	iP	06	54	58.0					
			i			59.2				-32	
			iS			59.5				-300	
			0			55.7	Δ = 8 mi.				
	21	BOULDER CITY	eP	09	20	52.0					
		OVERTON	eP	09	20	57.1					
		PIERCE FERRY	eP	09	21	25.0					

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MONTH OF August 194 3 11.

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
21	iP	21	24	36.8													iP	21	24	45.7				
	iS			39.6			+35										iS			52.9			30	
	0			32.7																			Δ = 42 mi.	
	Very small local shock, Δ = 14½ mi.																							
22																	e	01	37	18.2				
22	iS	10	35	28.4													iP	10	35	36.8				
																	iS			53.2			18	
22																	e	11	12	27.5				
23									e	06	11	50.8					iP	06	12	18.6				
									e			57.1					eS		13	06.4				
	Regional shock								eS		12	39.1					iS		13	11.3				
23	iP	20	14	10.9					iP	20	14	28.3					eP	20	14	21.6				
	eP	20	14	12.5					eS		15	00.3					iP			29.2				
	iP			15.0					iS			02.2					i			51.9				
	e			37.7													iS			59.8				
	iS			40.3																				
	Regional shock																							
23	iP	23	07	18.9			+16	-24 +60	i	23	07	28.5					iP	23	07	33.2				
	i			20.5					iS			39.0					i			43.1				
	iS			21.1			+65	+45									iS			43.7				
	im			23.6			130	-190									i			51.6				
	0			16.6	Δ = 8.3 mi.																			
	Small local shock or blast																							
26	e	03	20	16.8					e	03	20	28.3					e	03	20	30.6				
	eS			32.9					iS			49.9					iS			57.5				
	iS			34.8																				
	Regional shock.																							

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MONTH OF August 1943 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
	26	e	04	09	06.8					iP	04	08	57.1		+15			iP	04	09	05.0				
		e			21.6					iS			59.8		-50			i			06.4				
		i			23.2				18	0			53.1	Δ =	14½	mi.		iS			12.1		30		
						Δ = 48 mi.?				Very small local shock								l			13.3	Δ = 36½ mi.			
		Epicenter may be 5 mi. E. of Overton or 14 mi. ENE.																							
	26	e	11	20	27.2					e	11	20	20.1					eP	11	20	30.9				
		iP			29.0					iP			21.2					iP			32.9				
		iS		20	45.9					iS			31.8		16			iS			49.7		+15		
		iS			47.0		20	15	25	iS			32.6		77	55		iS			50.7		+100		
																						Δ = 90 mi.			
	26									iS	13	31	18.0					e	13	31	12.1				
																		i			19.9				
		Regional shock																iS		32	11.0				
	27	e	08	19	14.7					e	08	18	29.5												
										eS		19	35.0												
										iS			42.2												
	27									e	09	06	46.8												
										e	10	32	20.9												
	27	iP	15	06	08.0		+3	-7	-7									eS	15	06	31.9				
		iS			08.8		-60	+63														Δ = 52 mi.?			
		Small local shock, Δ = 4 mi.																							
	28																	e	02	46	59.2				
	28									e	10	25	00.5					i	10	24	58.5				
78	28	iP	12	06	38.9		-8	-8	+20	e	12	06	48.2					eP	12	06	48.1				
		iS			41.4		-20	+20	+50	iS	12	06	53.9	Δ = 39 mi.				iS			55.4	Δ = 42 mi.			
		0			35.2	Δ = 13 mi.																			
		Very small local shock.																							
		Epicenter 2 miles NNE of Boulder Dam																							

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MONTH OF August 1943 13.

Time used is G. C. T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	eP	02	50	40.6					eP	02	50	43.6					eP	02	50	41.0				
	iP		50	50.0					iP			53.7					eS		57	22.0				
	eS		57	47.5					eS		57	38.5												
29	e?	03	43	22.0					eP	03	43	41.6					iP	03	43	33.6				
	iP			28.5					iP			49.2					iP			42.4				
	iS		44	01.2		+10	+20		i		44	19.3					iS		44	23.2		-50		+50
	iS			03.3		45	50	70	iS			22.3		-20			iS			24.3		-90		
	F		45.3						iS			28.4		+72	46		iS			26.5		105		+80
	Regional shock.																							
29	iP	03	45	25.8		+25	+30	+60	e	03	45	34.8			+9		iP	03	46	37.5		-63		-130
	iP			32.3		-220	-200	-765	ip	03	45	35.4		-20			iP			45.6		+330		
	iS		46	04.5		-235	-1000	off	iP		45	44.6		+115	+145		im						off	1370
	im					off	1500	1400	iS		46	25.6		off			F		57.6					
	F		56.8																					
	Regional shock, felt widely in S. California.																							
29	iP	03	58	07.0		+4	+4	+8	eP	03	58	16.4			-4		iP	03	58	18.6		-4		-23
	iP			13.3		-24	-30	-102	iP			25.1		-42	-47		iP			27.5		+40		+105
	i?			21.9					iS		59	07.4		290	250		i		59	05.4				
	i			39.7					F	04	04						iS			08.7				
	iS			45.1													iS			10.2				+300
	iS			46.9			+145										im			12.2		200		480
	iS			48.3				-200									F	04	05					
	m			49.7		153		285																
	F	04	02.8																					
	Regional shock																							
29	iP	05	16	42.2				+6	iP	05	17	01.0			-12		iP	05	16	53.8		+3		-15
	iP			48.4		-9	-4	-38	i			40.8			+23		iP		17	02.5		+15		+32
	i			50.5					iS			42.0		-50	+50		i			03.9				
	i		17	13.9					im			44.6		90	105		i			07.7				
	iS			20.5		+15	+12	+32	F			21.5					iS			13.3		-53		
	iS			21.6		+15	+38										iS			15.8				+115
	im			23.9		75	90	155									im			17.4		170		280
	F		18.8					19½	Regional shock								F		22.0					

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MONTH OF August 1943 14.

Time used is G.C.T.

Mo.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	29	BOULDER CITY	iP	07	13	57.2		+5	+5	-15
			i			58.9				
			iS		14	00.3		-22	+30	-63
			m			00.8		67		123
			F		14.5					
			0			52.7	Δ = 16 mi.			
			Small local shock, epicenter 9 mi. NE of Boulder Dam at W end of Boulder Canyon.							
	30		iP	23	09	29.1		+16	-27	+50
			i			29.6				
			i?			30.4				
			i			31.1				
			iS			31.5		+42		+220
			im			32.5		+145	145	340
			iS			34.6				
			i			37.3				
			i			39.4				
			i			43.0				
			F		10.7					
			Local shock or blast.							
	31									
	31		iP	16	16	50.5		+10	-5	-30
			eS		26	29.3				
			Provisional epicenter, 18½° N. Lat. 91½° W. Long. U.S.C. & G.S.							
	31									
	31									

Mo.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		OVERTON	i	07	14	02.8				
			iP		14	03.5				
			iS			09.1		+10	+15	
			iS			10.8		-20	+20	
							Δ = 32½ mi.			
			i?	23	09	39.1				
			iP			42.3				
			i			48.7		15	16	
			0			27.1				
			e?	15	00	18.4				
			iS	15	00	58.4		35		
			eP	16	16	51.6				
			iP			54.2				
			eS		26	44.1				

Mo.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		PIERCE FERRY	iP	07	14	06.6		-5		-22
			iS			13.8		+45		
			iS			14.3				+62
			F		15.7		Δ = 37½ mi.			
			iP	23	09	44.1				
			i		10	54.8				
			iS			55.5		32		
			i			58.7				
			i		10	03.8				
			i			04.4				
			e	15	00	11.0				
			iP			20.3				
			iS		01	00.9				
			iS			02.5		80		
			Regional shock.							
			iP	16	16	49.7		-6		
			iS		26	38.7				
			i	19	04	28.0				
			iS			29.4		-53		
			Local shock				Δ = 7½ mi.			
			eP	20	58	26.8				
			eS		59	16.5				
			Regional shock,				Δ = 275 mi.			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 194[illegible]

Time used is G.C.T.

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
1								
1	iP	12	22	37.6		-8	-21	+45
	iS			38.7		+35	-80	-60
	im			39.0		62		75
	Small local shock				Δ = 6 mi.			
1								
2	iP	09	13	16.7				
2	iP	13	46	24.3				
	ipP			52.7				
2	iP	17	53.3					
4								
5								
6	eP	04	00	13.3				
6	iP	07	06	52.5				
	iP			55.3				
	iS		07	14.6		20	17	30
	Regional shock,				Δ = 105 mi.			
6								
7								

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
1	i	21	59	47.5		40		
	local disturbance							
2	eP	09	13	48.3				
2	eP	13	46	26.2				
	i			55.7				
2	eP	23	17	57.0				
5	e	08	53	26				
6	eP	04	00	15.4				
6	iP	07	06	59.0				
	iP		07	01.6				
	eS			23.1				
	iS			24.2		12		
						Δ = 120 mi.		
6	iP	14	58	11.7				
	iP			16.2				
	iS	15	00	51.6				
7	e	01	57	07.3				
	iS			55.5				

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	e	12	12	10.3				
	e	12	21	52.7				
	e			55.8				
	i		22	00.9				
	eP	13	46	25.6				
	e		46	56.0				
	iP	23	17	55.0				
	eP	07	37	27.5				
	e	08	53	26.2				

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LAKE MEAD SEISMOLOGICAL STATIONS — MONTH OF **September** 1943 — **2.**

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

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

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	iP	19	33	19.6					iP	19	33	17.7												
									eS		44	26												
9									e	04	24	36.2												
9	iP	11	34	33.8		-10	+28	-115	i	11	34	51.8					Δ = 41 mi.							
	iS			35.0		+152	-62	+300	e			57.7												
	im			35.1		-450	+215	-480																
	F			56																				
	0			32.1																				
	Small local shock Δ = 6½ mi. Felt in Boulder City.																							
10	eP	08	49	30.4					iP	08	49	31.7					iP	08	49	32?0				
																	0	08		36.9				
	U.S.C. & G.S. provisional epicenter 35.1°N. 133.3°E.																							
11																	e?	01	29	27?				
11	e	19	45	51					e	19	45	55.8					iP	19	46	04?				
	iP			52.9					iP			57.4					0	19		34.0				
	eS		55	58.7					eS		55	08												
	U.S.C. & G.S. provisional epicenter 16½°S. 173°W.																							
13	e?	04	13	45.6					iP	04	13	53.0												
	i			50.7					eS		14?	08.0												
	im			52.2				40	iS			09.4												
	i		14	05.5					im			12.6				25								
	Regional shock ?																							
14	e	02	14	17.9					eP	02	14	39.0												
	e			21.5																				
	Part of distant earthquake																							

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **September** 1943 3.

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

	BOULDER CITY								OVERTON								PIERCE FERRY							
Day of Month	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	e	04	00	21.2					eP	04	00	40.9												
	iP			22.8					iP			44.4												
	i			31.6																				
	Distant earthquake																							
14	eP	07	30	57.1					eP	07	31	00.4												
	iP			59.4					iP			02.3												
	e		48	45.0					i			21.3												
	Distant earthquake																							
14	iP	09	52	44.5					iP	09	52	47.8												
15	iP	10	58	16.3					e	10	58	23.5												
	i			17.0					iP			25.1												
	i			18.2					i			30.2												
	iS			48.9					e			56.4												
	iS			52.0					iS		59	00.4												
	Regional shock																							
15	iP	12	38	45.7					iP	12	38	49.2												
	i			46.3					iP			54.5												
	i			47.3					i			59.9												
	iS		39	17.2					iS		39	26.0												
	i			24.6					i			29.8												
	Regional shock.																							
16	e	00	16	53.1					i	00	16	58.5												
	iP			54.7					iP		17	03.3												
	i			55.7					i			05.2												
	i		17	26.0					iS			43.7				215								
	iS			26.7												Δ = 185 mi.								
	im			35.0				160																
	Regional shock							Δ = 160 mi.																

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF **September** 1943 **4.**

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

International Seismological Centre

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	e	00 48 00.1					i	00 48 11										
	iP	03.3					i	15.5										
	iS	34.6																
	im	42.9			28													
	Regional shock.																	
16	eP	06 36 49.0					iP	06 36 45.4										
	iP	50.1					iP	46.3										
	iS	37 10.0					i	37 03.5										
	im	12.9			38		iS	06.5										
	Regional shock.						i	12.0										
16	iP	07 33 23.9		-5	+13	-50												
	iS	25.1		-45	+50	+47												
	0	22.1	Δ = 6½ mi.															
	Small local shock.																	
16	iP	07 53 00.8					iP	07 53 07.2										
	iP	02.5					iP	10.0										
	iP	06.1					iP	14.5	Δ = 173 mi.									
	iP	06.7		-390	-340													
	i	31.7																
	iS	37.7		+280	-565													
	im	45.9		480	675	950												
	F	07 58.8	Δ = 150 mi.															
	Regional shock.																	
16	iP	08 13 20.1					i	08 13 26.4										
	iS	51.2		-	20		i	08 13 29.7										
							i	37.7										
	Regional shock.						i	14 08.2										

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

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

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	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	iP	05	41	09.9		+14	-10	+44	iP	05	41	20.7		-2	-	-								
	iS			14.3		-30			i			21.2												
	i			14.6					i			29.0												
	i			16.5		+23	+18		i			30.6												
	0			03.4	Δ = 23 mi.				iS			30.8		-20	-12									
	Local shock												Δ = 56½ mi.											
17	e	10	22	16.2					e	10	22	19.0												
	iP			17.6					iP			20.1												
	Distant earthquake.																							
18	iP	21	59	53.7					iP	21	59	45.4												
	iS		00	11.2				20	iS			57.1				30								
	0		59	28	Δ = 90½ mi.								Δ = 60½ mi.											
	Local to regional shock.																							
18	iP	22	37	55.3		+23	-35	+70	i	22	38	04.1												
	i			57.0					i			04.8												
	iS			57.9		+166			i			07.2				27								
	im		38	00.8		250	230	500	im			15.5												
	0			51.4	Δ = 13½ mi.																			
	Local shock or blast.																							
18									i	23	21	22.7												
									iS			25.0												
									Local Shock				Δ = 12 mi.											
19	iP	00	59	33.5					iP	00	59	45.3												
	iS	01	00	09.0				28	iS	01	00	30.5				22								
	Regional shock.																							
19	e	04	58	27					iP	04	58	29.6												
	Distant earthquake.																							

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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
19	i	05 09 58.0			i	05 10 0.5						
	iS	10 29.6			i	13.7						
	Regional shock											
19	iP	06 11 06.3			iP	06 11 09.4						
	i	19.6			i	27.1						
	Distant earthquake											
19	iP	09 11 57			iP	09 12 00						
	Distant earthquake											
19	iP	22 44 55.9		-5 -3 +6	iP	22 44 48.2						
	iP	56.7		+11 +7 -32	iS	45 00.1		-55				
	iS	45 13.1		+35								
	im	15.4		70								
	Regional shock											
										Boulder Dam		
20	iP	00 39 20.5		-55 +270-725	iP	00 39 30.2			iP	00 39 20.5		
	iS	21.8		+840+1130	iS	38.2			iS	21.8		4 mm
	F	50.6			i	38.6		35 30				Δ = 7 mi.
	O	18.5		Δ = 7 mi. Felt at Boulder Dam, noise at Boulder City.								
	Local shock											
20	iP	00 57 43.0		+10 -17 -25	e	00 57 48.1						
	i	51.3			iP	57 48.8						
	eS	01 03 28.5			i	57.3						
					eS	01 04 39.4			0	0 53.7		
	Distant earthquake, U.S.C & G.S. provisional epicenter 19½°N, 109° W.											
20	iP	06 21 08.1			e	06 21 06.7						
	i	09.0			i	20.1						
	iS	39.8		23								
	Regional shock.											

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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
20	iP	21	20	31.6		+5	+9	-35																
	iS			32.7		+30	+137																	
	im			33.0		65		125																
	Small local shock																							
21	e	04	21	12					iP	04	22	25.2												
	i		22	18					i		23	24.6												
22	iP	12	17	01.4																				
22	iP	23	31	29.6																				
23	eP	12	39	11.3					eP	12	39	02.8												
	iS		41	13.4					iP			14.7												
	i			31.0				70	iS		41	34.5												
									iS			44.5												
23	iP	13	15	07.6		+10	-8	+50																
	iS			08.8		+140	-160	+175																
	Local shock																							
23	iP	13	15	55.3		+4	+6	+22																
	iS			56.4		+37	-40	-25																
	Local shock																							
23	iP	13	16	03.4		+5	-8	+20																
	iS			04.5		+30	-33																	
	Local shock																							
23	iP	13	16	52.4		+7	-12	-65																
	iS			53.6		+125	-145	+130																
	Local shock																							
23	iP	13	17	00.2		-8	-8	+38																
	iS			01.4		+38	-52																	

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Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	BOULDER CITY	iP	13	17	12.9				+18
		iS			14.0		+25	-32	-20
23		iP	13	18	52.1		+8	-10	+68
		iS			53.3		+90	-125	+78
		Seven very small and small local shocks, Δ = 6 mi.							
23		iP	15	06	41.9		-32	+32	+85
		ipP		07	08.4	maybe ipP?			
		iPP			28				
		iPcP		09	45.0				
		iPcS		13	19.1				
		e		15	02				
		iS		16	24				
23		i	15	38	39				
		i			51				
		e		40	37				
		Distant earthquake?							
23		iP	16	33	47.2		+3	+6	-16
		iS			49.8		+6	-18	+7
		Very small swarm type shock Δ = 13½ mi.							
23		iP	17	31	27.4		+5	-8	+30
		iS			28.5		+32	+30	-37
		Very small local shock, Δ = 6 mi.							
24		e	06	53	19.7				
24		iP	11	20	52.7				
		ipP		21	21.3				
		Distant earthquake.							

Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	OVERTON	iP	15	06	43.1				
		i		07	05.9				
		i		09	45.2				
		i		13	19.8				
		e		17	09.3				
23		i	15	38	40.1				
		i			50.7				
23		i	16	34	00.6				
23									
24		e	06	53	17.8				
24		iP	11	20	56.2				
		ipP		21	25.2				

Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	PIERCE FERRY								
		U.S.C. & G.S. epicenter 15°N. 92°W.							
		O = 15h 00.5m							
		Δ = 30°							
23									
23									
24									
24									

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BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	iP	14	15	19.3		-18	+4	+45
	iS			21.7		+98	-147	
	Small local shock, Δ = 12½ mi.							
25	iP	01	52	24.9				+17
	iS			26.0				-20
	im			26.2				40
	Very small local shock, Δ = 6 mi.							
25	iP	02	32	19.2				+18
	iS			20.3				-28
	im			20.5				44
	Very small local shock, Δ = 6 mi.							
25	iP	21	07	37.9		+13	+11	-30
	iS			40.7		40	30	60
	Very small swarm type shock, Δ = 13½ mi.							
25	iP	23	56	55.5		+8	+10	+15
	iS			56.6		+35	+40	-43
	Very small local shock, Δ = 6 mi.							
26								
26								
26	iP	20	17	40.8				+7
	iP			41.2		+6	+5	+14
	iS			45.7		+12	-12	
	0			33.6				
	Very small local shock, Δ = 25½ mi.							

OVERTON

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	e	00	29	25				
	e		30	31				
	e		33	52				
26	e	07	15	36				
26	iP	18	19	47.2				
26	i	20	18	06.8				
				Δ = 69 mi.				

PIERCE FERRY

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

Epicenter SW of Boulder City.

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	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	iP	04	52	27.4					iP	04	52	10.3												
27									i	22	14	06				70								
									Small local disturbance															
27	iP	22	16	32.1					iP	22	16	34.8												
	i			50.6					i			54.1												
28									i	06	52	01.8												
									iS			04.0				135								
									Small local shock or disturbance.															
28	iP	10	58	12.6					iP	10	58	12.3												
29	iP	04	22	34.8		+13	+15	-67																
	i			35.0																				
	iS			35.6		+47	+80	-80																
	Small local shock Δ = 7 mi.																							
29	e	05	20	51.6					iP	05	20	48.2												
29	e	06	36	31.3					e	06	36	30.5												
	i		37	00.0				-20	e			45.8												
	i			37.3				35	i		37	11.8				-20							
	Regional shock								i		38	01.9				25								
29									e	07	16	08												
29	e	09	29	29					e	09	29	28.5												
29									eP	20	43	19					iP	20	43	16				
29																								
30	iP	06	42	07.9				-6									iP	23	18	17.2				
	iS			09.0				40									i		20	21.2				
	Very small local shock Δ = 6 mi.																							

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	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
30	e	07	00	23.2					e	07	00	41.2					e	07	00	41.9				
	iP			28.0					eS		01	26.8					iP			43.2				
	iS		01	02.8					iS		01	30.4					iS		01	24.0				
30	e	07	30	08					e	07	30	08					iP	07	30	09				
30									e	09	42	12					iP	09	42	27.1				
									i			29.7					iP			39.3				
									iS		43	18.2					iS		43	33.3				
30	e	12	06	49					iP	12	06	51					iP	12	07	53.5				

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LAKE MEAD SEISMOLOGICAL STATIONS

Instrumental Report - - - - - - - - - - - - October 1943

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

Five epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenters
80	2	08h 10m 12s	Eight miles NE of Boulder Dam
81	6	08h 21m 22s	NE of Pierce Ferry near Poverty Mt. Arizona
82	6	19h 20m 25s	Seven miles SE of Boulder Dam
83	23	10h 52m 01s	Six miles ENE of Boulder Dam
84	24	03h 52m 22s	Greggs Basin

No earthquakes were reported felt in the Lake Mead region in October.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1943 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									e	02 49 58.3		
									iP	50 07.3		
									iS	50.2		
1	iP	12 33 42.4			iP	12 33 48			iP	12 33 41.5		
1	i	14 35 49.9			iP	14 36 07.0			iP	14 35 57.9		
	iP	53.5			iS	52.1			i	36 06.6		
	iP	55.6							iS	48.9		
	iS	36 29.0										
	i	36.3										
1									iP	17 30 22.2	Reading probably	
									iS	40.6	30 sec. greater.	
									Regional shock			
1									e	17 55 48	"	"
									iS	27		
									i	32.5		
									Regional shock			
1					iP	18 04 43			iP	18 04 10	"	"
1					iP	18 22 44			i	18 22 17	"	"
									iP	19 44 04	"	"
									i	23		
									Distant earthquake			
1									e	20 33 05	"	"
									iP	10		
									i	34 18		
									i	26.5		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1943 2.

Time used is G.C.T.

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
	2	e	05	30	35.5													iP	05	30	04.4	Readings probably 30 sec. greater			
	2									e	06	58	58					eP	06	58	34	"	"		
																						Off Cape Mendocino, Calif. Δ = 660 mi.			
80	2	iP	08	10	16.5		+8	+5	-25	iP	08	10	21.6					iP	08	10	22.8				
		iS			19.5		+20	+25		iS			28.2		-14	+10		iP			23.6				
		i			19.8		50	45		0			12.1	Δ = 33½ mi.				i			28.9				
						Δ = 15½ mi.												iS			30.0				140
		Small swarm type shock, epicenter 8 mi. N.E. of Boulder Dam																				Δ = 37½ mi.			
	2																	iP	09	31	26				
	2	i	11	08	02.3													iP	11	07	58.1				
		iS			16.9				8									i			59.4				
		0		07	40.7	Δ = 75½ mi.												iS			10.0				
																		i			11.7				50
		Local to regional shock, epicenter probably south of Pierce Ferry																				Δ = 61½ mi.			
	2	iP	11	28	39.4					iP	11	28	40.5					iP	11	28	05.7				
	2	iP	17	32	04.7				-10	iP	17	32	06.6				+15	iP	17	32	03.6				+28
		i		33	05.1					i			56.4					i			39.8				
																		i			53.0				
	2																	i	18	39	00				
																		iP			08.8				
																		iS		40	00.0				
	2	e	20	54	56													iP	20	54	59				-12
	2									e	21	55	02					e	21	55	03.5				
																		i			05.5				
																		i			24.0				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **October** 1943

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
2	iP	23 57 14.7		+17 -20 +55	i	22 57 23.8			iP	23 57 26.5		-6
	iS	16.7		160 130 350	i	25.5			iS	36.8		
	0	11.7	Δ = 10½ mi.		i	33.6					Δ = 53 mi.	
					i	34.7	Ave. Δ = 47 mi.					
	Manganese Ore 2 blasts few minutes between, 7,000 lbs. each?					9,000 "	" ?					
3	iP	00 04 12.3		+24 -35 +60	i	00 04 22.1			iP	00 04 24.0		
	i	13.6			i	32.0			i	32.0		
	iS	14.5		-75 -90					i	32.3		
	i	14.8		+155 +180 -180					iS	34.7		
	Second small blast.											
3	e	00 24 33.4			i	00 24 36.6			iP	00 24 36.6		
									i	56.4		
3	e	01 03 50.5			e	01 03 44 .3			iP	01 03 56.3		
					iP	48.2			iP	04.6		
3	iP	06 55 50.5		+8 +8 -43	e	06 56 11.7			iP	06 56 01.5		
	iS	51.5		-135 +175		Δ = 47 mi.			i	11.3		
	0	49.0	Δ = 5½ mi.								Δ = 47 mi.	
	Small local shock											
3									e	08 41 19.7		
									iP	26.1		
3	iP	14 23 19.8		-44	e	14 23 11.3			iP	14 23 19.2		-12
	iP	23.1			iP	12.9			iP	20.6		315
	i	35.5			iS	20.7			i	35.6		
	i	36.3			i	20.9			i	36.4		
	i	37.3			Δ = 52 mi.				Δ = 85½ mi.?			
	0	22 55.5										
	Local to regional shock, Δ = 85 mi. Probable epicenter 30 to 40 mi. N. of Overton.											

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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
	4	iP	04	30	00.0		+8	+5	-30																
		iS			01.2		20	30	40																
		Very small local shock $\Delta = 6\frac{1}{2}$ mi.																							
	4	e	10	52	37.4					e	10	52	40.2					iP	10	52	41.0				-12
		iP			38.6		-7	-3	-30	iP			41.2					iP			41.9				+73
						$\Delta = 88°$				i		53	39.2												
		South Pacific - probably New Hebrides																							
	5																	iP	19	32	17				
	6	Regional shock								e	03	06	44					iP	03	06	45.3				
										e		07	18					iS		07	24.2				
	6	iP	06	56	09.4					iP	06	56	17.4					iP	06	56	22.3				
		iP			10.0					iS			52.7					iS		57	03.5				
		iS			41.2					0		55	24.5	$\Delta = 175$ mi.								$\Delta = 200$ mi.			
		Regional shock $\Delta = 155$ mi. probable epicenter W. of Panamint Valley, Calif.																							
	6	iP	05	23	13				+17																
		iS			14				75																
		Very small local shock $\Delta = 5$ mi.																							
81	6	iP	08	21	46.5					iP	08	21	39.1					iP	08	21	35.5				-17
		iP			47.4					i			50.7					i			43.1				
		iS		22	03.6				17	iS			51.0					iS			44.2		260		235
		0		21	21.7	$\Delta = 85$ mi.								$\Delta = 60$ mi.								$\Delta = 47$ mi.			
		Local to regional shock, Epicenter near Poverty Mt. Arizona.																							
	6	iP	17	45	00.6					iP	17	45	02.2					iP	17	44	00.7				
										i			38.0					i		45	35.0				
	6	i	19	08	32.5													iP	19	08	39.8				
		iS			35.3					0			28.4					iS			47.8				23
		iS			35.7				45																
		Very small shock $\Delta = 14\frac{1}{2}$ mi.																				$\Delta = 40\frac{1}{2}$ mi.			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1943 5.

Time used is G.C.T.

		BOULDER CITY								OVERTON								PIERCE FERRY							
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
Sta.	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
BO	6	iP	19	20	28.9				-13	i	19	20	37.5					iP	19	20	35.9				+20
		iS			31.7					i			45.6					iS			43.3		30		45
		iS			32.3		35	55	90	0			24.8	Δ = 43 mi.								Δ = 38½ mi.			
		Small local shock Δ = 14½ mi. epicenter 7 mi. SE of Boulder Dam																							
	7	iP	10	56	51.8				-6	iP	10	56	54.2					iP	10	56	55.6				
		Probably Pacific								i		57	47.9												
		Coulee Dam iP = 10:56:49.5																							
	8									e	19	11	32					e	19	11	41				
	10	i	04	16	39.5					i	04	16	43.1					i	04	17	44.4				
		Shasta Dam 04:16:28.8																							
	10	iP	20	21	14.7		+8	-5	+20									eP	20	21	26.5				
		iS			15.7	-	90	+70	-70									iS			36.1				
		Small local shock Δ = 5 mi.																							
	11	e	02	21	19					iP	02	21	09.7					iP	02	21	29.5				
		i			23					i			15.8					iS			59.8				
		i								iS			45.7					Regional shock							
	11									e	02	37	53					e	02	37	21				
	11	iP	04	54	03.2					eP?	04	54	12.5					iP	04	54	11.6				
		i			10.4					iP			21.6					iP			19.6				
		iS			42.2					i			27.9					iS			58.7				
		iS			45.0					iS		55	01.9					i		55	01.5				
		Regional shock Δ = 180 mi.								iS			04.5												
	11	i	06	36	32.0					iP	06	36	34.6					iP	06	36	35.8				
		Distant shock.																							

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	iS	11	50	26.3				7									iP	11	50	03.1				+70
	Small local shock				Δ = 41½ mi.				Epicenter in Greggs Basin								iS			04.3				250
																					Δ = 6½ mi.			
11									Very small local shock Δ = 7 mi.								i	19	34	01.9		+6		
																	iS			03.2		115		
11	iP	23	05	48.1		+30	-40		iP	23	05	57.7					iP	23	06	00.2		-4		
	iS			50.4		310	415	400	i			57.9					iP			00.9		-11		
	Local blast				Δ = 12 mi.				iS?		06	06.8					iS			11.0		65		
	6500 lbs. in ore								iS			07.6												
12									i	11	10	09.7					i	11	10	10.6				
									i			43.0					iP			12.9				
																	iS			42.1				
	Regional shock.																iS			43.3		25		
12	eS	19	49	17.7					e	19	48	33					e	19	48	54.0				
									i		49	14.5					iS		49	41.9				
									i			22.0					i			45.3				
	Regional shock																i			49.6				
13	i	00	31	33.3					e	00	32	42.3					iP	00	31	46.0				
	iS		32	51.9			30		iS		33	09.6					iP			47.0				
																	iS		32	15.0				
	Regional shock																iS			17.0				
13	iP	04	47	23.0					eP	04	47	27.8					iP	04	47	21.0				
	i			57.8					iS		50	36.5					iS		50	46.1				
	iS		50	25.7																				
	i			38.8																				
	i			51.5																				
	Distant earthquake, Δ = 11°								Tentative epicenter 26° N. 109° W.															

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 194 3

Time used is G.C.T.

International Seismological Centre

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									•	05	55	18					•	05	56	17				
13	•	10	40	45					•	10	40	03					•	10	40	56				
13	iP	22	44	12.6		+9	-15	+35	i	22	44	21.3					iP	22	44	24.4				
	i			14.0					i			23.4					iS			34.7				
	iS			14.8		-55	-85		i			28.0												
	im			17.6				385	iS			30.5												
	0			9.4					i			32.3			15								
	Small blast —				5000	lbs.																		
14	Regional shock								eP	05	52	38.3					eP	05	51	56.3				
									eS		53	51.8					•		52	38.7				
																	eS		54	12.4				
14	e	06	28	42.3					e	06	28	48.6					e	06	28	47.6				
14	i	12	11	50.2					e	12	11	55.4					i	12	11	54.7				
14	iP	14	29	22.5		+9	+10	+35	iP	14	29	31.5			+4	-18	iP	14	29	31.3		-15		+50
	i			27.4		-62	-72	+160	i			40.0		-35	-85	-290	i			35.2				
	i			34.2					i			44.0			-340		i			38.8				
	i			52.2					iS		30	18.0			-390		i?		30	08.9				
	iS			57.9			445	1075	im			35.8		103	011	501355	iS			18.3				
	iS			58.4		+300			F			37.0					im			24.2		1280		
	iS		30	01.7		520	800								Δ = 205 mi.		F			37.0		Δ = 205 mi.		
	F	14	36.0		Δ = 160 mi.				Epicenter in San Bernardino Mountains.															
	Regional shock.																							
14																	iP	18	43	14.6				
																	iS			30.2		13		
																	Regional shock							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **October** 1943 **8.**

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

	BOULDER CITY									OVERTON										PIERCE FERRY									
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z		Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z			Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z		
14	•	22	28	30.5						•	22	28	16.2							eP	22	28	23.3						
										iP			22.2							iS		30	19.3						
15	iP	00	20	16.6						i	0	20	33.7							•	0	20	25.6						
	iP			21.7						i			40.5		time?					iP			33.0						
	iS			52.9						iS		21	13.6		on this date					i		21	01.6						
	iS			54.8						iS			18.0							iS			11.7						
	Regional shock																			i			14.3		180				
15	iP	01	26	38.5																•	01	26	47.9						
	iS		27	07.0																iS		27	25.7						
	Regional shock																												
15	iP	16	50	40.6		+8	+10	+33		iP	16	50	49.3		-12	-10	-18			iP	16	50	49.2		-15		-68		
	iP			45.6		-48	-50	-195		iP			57.5		-33	-50	-105			iP			56.6		+90		+360		
	iS		51	16.1			800			iS		51	34.6							iS		51	35.5						
	iM			19.4		740				iS			41.4		920	1210	1120			iM			37.8		1500		1525		
	F		56.5		Δ = 170 mi.					F		57.2								F		58.9							
	Regional shock																												
15	iP	16	59	39.3						iP	16	59	51.4							iP	16	59	43.1						
	iP			40.4						i	17	00	31.6							iP			50.5						
	iS	17	00	10.3						iS			34.7							iS			30.1						
	iS			13.8																									
	Regional shock																												
15										iP	17	33	50.6							iP	17	33	57.6						
15	iP	22	20	34.7						iP	22	20	37							iP	22	20	33.4						
16	iP	05	10	04.6						iP	05	10	06.7							iP	05	10	04.9						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **October** 1943

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

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	e	10	09	25.				
16	e	13	22	02				
	e		26	37				
16	iP	15	09	43				
	Distant earthquake							
16								
17	iP	01	16	02.3				
17	iP	05	08	05.7		+5	-4	-11
	i			07.4				
	iS			22.0		-8	+3	
	iS			24.0		-15		-15
	Local to regional shock, probable epicenter near Colorado River NW Peach Springs Arizona Boulder Dam							
17	iP	07	04	07.1		-25	-27	+90
	iS			08.1		+135	-125	
	F		04.6					
	O			05.6				
	Local shock, Δ = 5½ mi.							
17	iP	17	31	24.7				
	Distant earthquake							
18	iP	11	58	02.4		+5	-6	+17
	iS			03.6		+35	+20	-25
	Very small local shock, Δ = 6½ mi.							
18	iP	19	55	22.0				
	iS		56	21.6				
	Regional shock							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	10	09	25		time?		
e	13	22	20		"		
eS		26	33				
iP	15	09	36		"		
Δ = 84 mi.							
i	07	04	08				
i			11				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	10	09	11				
iP	13	22	30.8				
iS		26	34.0				
iP	15	09	43.5				
i	18	58	52				
Regional shock?							
iP	01	15	59.9				
iP	05	07	54.0		+3		-27
i			54.7				
i		08	01.9				
iS			02.6		+180		
iM			03.5				-275
					Δ = 44½ mi.		
i	07	04	18.7				
i			20.6				
iS			27.7		+10		+12
iS			29.4				
					Δ = 46 mi.		

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

MONTH OF October 1943 10.

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
	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
19	iP	15	20	09.3					i	15	20	05.2					iP	15	19	57.7				
	iS			41.0					iS			32.8					iS		20	19.5				
	iS			41.9																	Δ = 105 mi.			
	Regional shock																							
19									eP	17	43	30.5					e	17	43	28.7				
									eS		49	31.7					e		48	49				
																	eS		49	12.8				
20	Regional shock																eP	03	15	23.2				
																	iS		16	11.1				
20									e	04	13	04					e	04	12	57.2				
									e		16	24					e		16	11.4				
20	iP	09	40	17.5					i	09	40	18.7					e	09	40	25.0				
	iS		41	04.9					i		41	03.2					iS		41	17.6				
	Regional shock								i			09.7												
20									iP	20	56	39.5					i	20	56	18.0				
									iS		57	23.9					i			53.7				
									Regional shock										57	10.1				
20									e	21	36	20.8					i	21	35	28.5				
																	i			58.2				
									Regional shock								iS		36	22.1				
21	iP	12	03	36.9					e	12	03	45.6					iP	12	03	49.0				
	iS		04	07.4					e			24.3					iS		09	30.6				
									Regional shock															
21	iP	23	20	10.7					iP	23	20	13.4					iP	23	20	14.6				
	U. S. C. & G.S. provisional epicenter 16.5° S. lat. 178° E. long. Δ = 83°																							
22	iP	17	00	13.5		-27	+25										iS	17	00	34.0		-3		
	iS			14.5		+85	+100																	
	0			12.0	Δ = 5½ mi.																Δ = 46 mi.			
	Small local shock.																							

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1943 11.

Time used is G.C.T.

International Seismological Centre

		BOULDER CITY								OVERTON								PIERCE FERRY							
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
		Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z
	23	iP	02	52	21.7		-5	+7	-17									iS	02	52	42.0		+7		
		iS			23.0		+35	+20	-52																
		0			19.7	Δ = 7 mi.																Δ = 46½ mi.			
		Very small local shock.																							
83	23	iP	10	52	05.0		-4	-5	+9	i	10	52	11.7					iP	10	52	12.2		+4		
		iS			07.7		-22	+26	-44	iS			18.7		-8			iS			18.3		-8		
		im			08.4		-68	+40						Δ = 37 mi.				i			21.4		-15		
		0			01.0	Δ = 14 mi.																Δ = 36 mi.			
		Small local shock. Epicenter 6 mi. ENE of Boulder Dam																							
	23																	iP	16	39	17.1				
																		iS			41.9		35		
	23	iP	17	19	43.1				-15	iP	17	19	44.8					iP	17	19	41.7				
	23	i	17	39	29.8					iP	17	38	11.1	Distant?				eP	17	38	03.4				
		i		41	15.9					iP		41	56.8	Regional?				ePP		41	56.6				
		iPP			56.1					i		42	40.9					e		42	45.3				
		es		42	39.7					iS		43	00.5	"				e		52	46.0				
		i		52	49.8					iS			20.8	Distant?											
		Δ = 115°								iP		52	48.5	"											
										eS?		57	04.8	"											
										eL?		58	24												
		U.S.C. & G.S. epicenter 25° N. lat. 92.5° E. long.																							
		Series of seismic waves, probably two earthquakes.																							
	24	iP	00	30	04.2		+4			i	0	30	20.5					iP	00	30	12.8				
		i			11.8					i			23.4					iP			14.4				
		i			12.5					i			27.3					iP			23.9				
		iS			48.0					iS		31	08.5					i			04.9				
		iS			50.2		-76	-84	170	iS			11.0					iS		31	06.4				
		Regional shock								i			14.5		125			i			11.9				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1943

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
84	24	iP	03	52	33.4				-8	iP	03	52	32.4					iP	03	52	25.1		-120		-250
		iP			35.2					iP			32.7					i			26.9		-960		
		i			40.3					iP			33.3									Δ =	10½	mi.	
		iS			41.3		-11	-14		i			35.5												
		0			21.8	Δ =	41	mi.		i			37.6												
										iS			40.6		27		24								
										i			42.7	Δ =	37½	mi.									
		Local shock, epicenter in Greggs Basin.																							
	24																	iP	03	54	12.6		+8		
																		iS			13.8		-85		
	24	i	13	24	21.9					i	13	29	31.8					•	13	29	07.9				
		iS		30	46.7		7			iP			32.4					iP			09.1				
		Regional shock								i			49.5		10			i			26.5				
										i		30	01.0					iS			27.0		50		
										i			09.0									Δ =	95	mi.	
	24	iP	13	50	55.4					•	13	50	55					•	13	50	28				
		iP			56.5					iP			58.6					iP			30.8				
		Distant Earthquake																							
	24	iP	16	16	52.5					iP	16	16	55.9					eP	16	16	56.4				
		Distant earthquake								i		17	22.7					iP			57.6				
		Epicenter in S. Pacific			Δ = 80°					i			35.3					eS		27	08.5				
	24	iP	23	32	53.5					•	23	32	52.7					eP	23	32	56.8				
		i		33	42.5					iP			53.3					iP			58.4				
																		•		41	05.2				
	25	•	00	02	29.5					•	00	02	34					•	00	02	29.0				
	25	iS	10	20	03.1					iP	10	25	32.2					iP	10	25	41.0				
		Regional shock			Δ = 96 mi.					i			45.3					iS			57.2				
										iS			46.4	Δ =	58½	mi.						Δ =	84	mi.	
										im			48.0				15								

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1943 13.

Time used is G.C.T.

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	i	11	13	13.2					e	11	13	13.8					eP	11	13	16.6				
25																	e	13	18	04.9				
25	e	14	18	04.6					iP	14	18	12.1					e	14	18	06.1				
25									iP	15	17	40.3					e	15	18	17.7				
									i			53.6												
									i		18	16.1												
	Regional shock								i			17.0				22								
26	eP	04	52	00.8					eP	04	52	04.2												
	eP			02.2					iP			05.9												
	i			13.3					iP			24.5												
	i			19.3					iS		53	37.2												
	iP			25.6					iS			42.6												
	i		53	19.4					F	05	06.9													
	i			29.7																				
	i			35.2																				
	i			56.2																				
	i		54	02.2	Δ = 5.9°																			
	Regional shock - Reported felt in San Francisco and adjacent area.																							
26	•	12	01	00.5					•	12	00	49												
									iP		01	21.2												
	Regional shock								•		02	59												
									iS		03	12.1	Δ = 48 mi.											
27									iP	22	06	59.4				+8								
									iS		07	01.3				-85								
									Small local shock Δ = 10 mi.															
27	iP	02	13	40.2		+12	+15	+65																
	iS			41.5		+35	+160																	
	Small local shock Δ = 7 mi. SW																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 194 3 14

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
28	e	06	00	22.4					e	06	00	03.1					iP	06	00	05.7				
	e			54.3					e			34.3					iS		01	22.1		32		
	e		01	52.2					iS			40.9												
	Regional shock																							
28	iP	08	20	43.6		+4	+6	-26																
	iS			44.9		-31	+87	-70																
	Local shock				Δ = 6½ mi.																			
28	iP	14	11	58.5		-7	-11	-20	i	14	11	12.5					iP	14	12	04.7				
	iS		12	36.4		-18	20	30	iS			55.0		20			iS			49.7		45		
	Regional shock				Δ = 180 mi.																			
29	iP	16	32	01.8													iP	16	32	11.0				
	i			04.2													iP			14.2				
	iP			11.8													i			20.9				
	iS			52.7													i			58.0				
	iS			58.3				45									iS		33	10.0				
																	iS			14.3				
	Regional shock																iS			15.9		140		
29	e	17	24	36.5													e	17	20	17.8				
	e			54.5													e		21	47.0				
																	e		22	51.7				
																	e		24	22.5				
29	i?	17	39	58.6													iP	17	40	49.0				
	e		40	59.6													i		41	10.2				
	e		42	53.6													e		43	03.5				
	i		43	36.6													eS			25.2				
	e			47.6													e			33.5				

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 194 3 15.

Time used is G.C.T.

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
D. te	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
30	i	18	55	18.7					iP	18	55	32.7					iP	18	55	16.2				
	iP			20.9					iP			40.5					iP			26.0				
	iP			24.5					iS		56	19.4					iP			30.7				
	iS		56	01.6					i			25.3					i		56	08.7				
	iS			08.1				140	i			33.0		110			iS			13.0				
	Regional shock				Δ = 220 mi.												i			17.5		175		
30	~~iP~~	~~22~~	~~29~~	~~24~~	~~2~~												iP	22	29	24.2				
																	iS		30	06.7				
30																	iP	23	28	18.0				
																	iS			19.1		70		
																	Local shock				Δ = 6 mi.			
31	iP	13	12	50.0				-8	iP	13	13	01.7					iP	13	12	57.3				
	iP			56.4					iP			09.1					iP		13	00.4				
	i		13	27.2					i			48.1					iP			05.8				
	iS			30.2					iS			52.8					iS			43.5				
	Regional shock				Δ = 220 mi.				i					375			i			59.8		440		
														Δ = 260 mi.								Δ = 255 mi.		

International Seismological Centre

Boulder City, Nevada.
October 27, 1943

Gentlemen:

We wish to report the following readings from Boulder City:

Date	Phrase	Time			G. C. T.
		h	m	s	
Oct. 26.	eP	04	52	00.9	
	eP			02.3	
	i			13.4	
	i			19.4	
	i			25.7	
	i		53	19.5	
	i			29.8	
	i			35.3	
	i			56.3	
	i		54	02.3	

Reported felt in San Francisco and adjacent area.

D. S. Carder

D. S. Carder, Chief
Lake Mead Seismological Party.

DSC/L

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Instrumental Report - - - - - - - - - - - - - - November 1943.

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

Ten epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
85	2	22h 55m 36s	Nine miles SE of Boulder Dam.
86	6	03h 43m 54s	Near 37°21'N, 114°15'W About 10 miles S of Joseco.
87	6	03h 53m 39s	Near above epicenter.
88	6	03h 56m 08s	Near above epicenter.
89	11	04h 46m 47s	Seven miles SE of Boulder Dam.
90	15	20h 29m 02s	Five miles NNW of Pierce Ferry.
91	15	22h 14m 46s	Six miles SE of Boulder Dam.
92	24	02h 56m 41s	Seven miles NE of Boulder Dam.
93	26	14h 48m 50s	Seven miles NE of Boulder Dam.
94	30	06h 35m 29s	Eight miles NNE 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.		
86	6	03h 44m	III	) Felt by several or all at
87	6	03h 54m	III - IV?	) Matthews Ranch and Beaverdam
88	6	03h 57m	II	) Wash. One card report for 3 earthquakes. Second shock was heaviest, third was light.
—	13	19h 32m	III	At Boulder City. Felt by few.
—	16	23h 36m	III	At Boulder City. 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 **November** 194**3**

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

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	iP	00	37	21.0		+3		-7
	iS			23.8		+20	+18	-20
	Very small local shock, Δ = 14 mi.							
2	eS	01	43	43.5				
	Regional shock.							
2								
2	e	16	40	10				
	i			49.1				
	iS			54.3				
	i		41	01.1				50
2	iP	16	49	00.8				
	iP			02.8				
	i			39.5				
	iS			44.4				
	i			48.4				365
	Regional shock.							
2	iP	16	55	16.6				
	iP			19.1				
	iP			2017				
	iS			59.0				
	iS		56	03.0				
	iM			05.7				120
	Regional shock.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iS	16	40	39.5				
	Time doubtful by ½ minute						
i	16	49	10.6				
i			15.9				
iS		50	02.6				360
i	16	55	48.8				
iS		56	18.3				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	01	41	58.7				
iP		42	00.5				
iS		43	17.5				
iS			28.5				
i	06	45	29.8				
e	16	40	06.1				
eP			16.5				
i		40	55.2				
iS		41	03.3				
iS			06.3				
iP	16	48	56.6				
iP		49	01.6				
iP			10.5				
iS			53.6				
iS			57.0				
i		50	01.1				
iM			11.3				520
F		55.5					
iP	16	55	15.2				
iP			18.0				
iP			24.4				
iS		56	08.9				
i			15.8				
iM			20.0				185

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **November** 194 **3** **2.**

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
2	i	16	57	49.6													iP	16	58	00.0				
	i		58	25.4													iP			03.3				
	iS		58	59.0					iS	16	59	21.5					i		59	07.9				
	iS		59	06.6				140	iS		59	32.8					iS			12.3				
																	i			17.1				
																	iM			19.5		245		
2	i	17	02	13.7					iS	17	02	36.5					iS	17	02	26.2		37		
	iS			19.3					iS			43.9					F		06					
2	iP	17	06	53.5				+80									eP	17	07	07.1				
	iS			54.7													iS			14.9				
	Small local shock.																							
2	iP	17	43	29.0					•	17	43	51.7					•	17	43	28.4				
	iP			34.3					iS		44	03.0					iP			30.1				
	i			41.3					iS			06.9				70	i			50.2				
	i		44	13.4													iS			56.2				
	iS			16.0					Regional shock.								iM			59.2		95		
	iS			21.8				80									F		49.5					
	F		47.2																					
2	iP	17	51	36.7					•	17	51	51.3					iP	17	51	39.5				
	i			43.3					iP		52	02.8					iP			42.3				
	iP			46.2					iS			47.3					iP		52	45.1				
	i			52.0					iS			50.1				450	i			00.0				
	iS		52	34.6													iS			37.4				
	iS			37.8				450	Regional shock. Δ = 340 mi.								i			41.0				
																	iM			46.3		485		
2	iS	17	54	50.8					iS	17	55	00.9					i?	17	53	45.1				
	i			57.0				130	iS			17.7				285	iS		54	52.2				
																	iS		55	00.9		220		
2	iS	18	01	20													•	18	00	11.6				
																	•	18	01	15.4				
																	iS			30.4				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF November 1943

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
2	i	18	02	38.6													i	18	02	27.0				
	iP			43.0													iP			33.6				
	i		03	18.5					iS	18	03	19.7					iP			37.1				
	iS			23.0					iS		03	42.2					iS		03	07.0				
	iM			30.0				65	i			49.1		110			iS			11.0		45		
	Regional shock.																i			30.6	Second shock?			
																	S			34.3		125		
2	e	18	27	08.9					e	18	27	20					e	18	26	24.0				
	e		28	51.1					Pasadena Δ = 120°								e		27	15.2				
																	e		28	48.6				
2	e	19	20	40.0													e	19	20	33.6				
	e		21	26.5					e	19	21	39					g	19	20	51.8				
																	e			57.8				
																	eS		21	27.8				
																	iS			31.9				
2	e	19	39	43.5													e	19	39	39.1				
	i		40	24.2													e			45.8				
																	eP			51.8				
																	e		40	28.4				
																	eS			33.5				
																	iS			38.3		24		
2	e	20	24	34.5													e	20	24	25.2				
	e		25	14.0					e	20	25	35					eS		25	25.9				
																	iS			29.1		15		
																	F		27.5					
2	e	21	18	57.2													eP	21	18	57.7				
	e		19	52.2					e	21	19	56.5					eP		19	03.2				
																	eP			09.0				
																	iS			50.0				
																	iS			52.5		25		

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MONTH OF November 1943

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
	2									e	22	05	33.8					e	22	04	38.3				
																		eS		05	24.2				
	2									e	22	18	13.7					eS	22	18	15.6				
	2	e	22	55	26.6					i	22	54	27.5					e	22	55	21.3				
		iS		56	07.8					iS		55	56.7					i			36.2				
		i			15.2				30									iS		56	18.8				
		Regional shock.																iS			23.2		40		
85	2	iP	22	55	36.4		+4	-4	-17	i	22	55	42.3					iP?	22	55	39.6				
		i			36.9					iS			52.4					iS		56	49.5		35		
		i			38.5																				
		iS			39.2		+23	+80	-130																
							$\Delta = 14\frac{1}{2}$ mi.																			
		Small local shock, epicenter 9 mi. SE of Boulder Dam																							
	2									e	23	01	33.0					e	23	00	45.1				
																		e			50.4				
																		eS		01	35.3				
																		iS		02	43.0		5		
	3									i	23	14	53.0												
										iS			54.3		75										
										Small local shock. $\Delta = 7$ mi.															
	3	iP	04	19	54.4					e	04	19	57.1					e	04	19	54.6				
		i			58.8					i		20	01.6					iP		20	05.3				
		iS		20	40.8					iS		20	44.0		15			iS		21	07.9		20		
		iS			43.8				13																
	3	i	04	24	06.8					i	04	24	46.6					iP	04	24	17.8				
		iP			09.1					iP			51.0					iP			22.2				
		iS		25	43.8					iS		25	33.2					i		24	54.3				
		iS			46.0					iS			37.8		47			iS		25	45.9		45		
		iM			49.2				40														2nd shock?		

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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
3	iS	06	11	45.5					e	06	11	15					e	06	10	53				
									eS		12	05					iP			00				
																	iS		11	55.2				
																	iS		12	00.6		20		
3	iP	14	39	07.1				+10	eP	14	39	06.6					iP	14	39	09.6				
	iP			08.4		+8	-22	+53	iP		39	12.5					iP			12.2				
	iS		44	42.0					eS?		46	38					i		40	40.2				
					Δ = 2380 mi.				iM		52	31					iS		44	42.3				
	U.S.C. & G.S. epicenter 62° No. 151° W																eG		48	43.4				
																	iM		52	38.0				
3																	iP	20	32	26.2				
																	iP			26.5				
																	iS			27.5				
																	iS			27.7				-80
																	Very small local shock Δ = 7 mi.							
3	e	22	12	47.1					eP	22	12	46.5					e	22	12	05				
									iP			50.0					iP			15.6				
4	eP	06	19	27.0					eP	06	19	28.8					eP	06	19	29.9				
	iP			32.0					iP			35.3					iP			37.3				
	e		27	12																				
4	iP	22	39	15.0					e	23	39	27					eP	23	39	24.8				
	iS			51.6					eS		40	40.4					iS		40	05.6				
	iS			56.8					iS			46.9												
	Regional shock.																							
5	e	08	47	33.5					e	08	47	35.0					e	08	47	49				
	i			50					i			51.6												
5	i	09	29	16					i	09	29	45.9					e	09	29	19.5				
5	i	10	42	51.5					i	10	42	47.5					iP	10	42	50.2				
5	e	11	02	48					e	11	02	47.4					e	11	02	51.2				

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Time used is G.C.T.

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**					
86 6	iP	03 44 23.4				-20	e	03 44 13.1			+		iP	03 44 20.4			-7	-20
	iP	24.7					iP	13.3			-3	-14	iP	22.3				
	i	39.2				+70	iP	14.2			+15		iP	24.6				
	iS	43.4		+30	-20	0	i	23.6				-190	iS	38.1		-180		
	iS	45.7		0	-65		i	24.5					iM	38.5		785		1240
	M	47		180	120		iS	26.1							Δ =	90 mi.		
			Δ =	102 mi.			iM	30.0			540	590						
							0	43 54.0	Ave.	Δ =	60 mi.							
	Local to regional shock. Felt near probable epicenter at 37° 21' N. lat. 114° 15' W. long.																	
87 6	iP	03 54 07.7			-1	+8	iP	03 53 57.7			+5	+18	iP	03 54 05.0		-7		-45
	iP	54 07.8		+5	+8	-15	i	58.8					iP	05.7		-27		+270
	i	09.1					i	54 09.6			-170	+280	iP	07.2		+175		
	iS	26.8		+40	+40		iS	10.5			-200		iS	22.6		+225		-215
	iS	28.6		-65		-210	iM	16.2			1000	860	iM	24.5		900		900
	iS	29.2		+155	+100	+450	0	53 39.1	Ave.	Δ =	60 mi.				Δ =	90 mi.		
	iM	301		220	300	440												
			Δ =	102 mi.														
	Local to regional shock. Felt near probable epicenter at 37° 21' N. lat. 114° 15' long.																	
88 6	is	03 56 57.5		15	15		iS	03 56 39.1					iP	03 56 34.0				+20
	0	56 08.1	P.F.				iS	41.9				67	i	03 56 34.8				-30
													iS	51.6		45		50
			Δ =	102½ mi.						Δ =	64½ mi.				Δ =	90 mi.		
	Local to regional shock. Felt lightly near probable epicenter at 37° 21' W. lat. 114° 15' W. long.																	
6	iP	08 46 14.7					e	08 46 14.2					e	08 46 22.4				
	iP	27.6					iP	32.6					iP	36.2				
	i	46 53.4					i	46 59.0					i	50 37.8				
	i	51 02.9					i	50 34.8					e	51 11.2				
	e	59 00.7					i	51 24.2					3	09 00 27.1				
			Δ =	7360 mi.			e	09 01 48.7										
	U.S.C. & G. S. epicenter 5.5° S. 134° E																	
7	iP	06 47 20.7		+10	+6	+60	iP	06 47 23.7					iP	06 47 24.4				

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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	22	12	00.9		+26	-32	+95	i	22	12	10.2					iP	22	12	12.5				
	iS?			02.4					i			12.4					iS			23.4				
	im			05.9		325	365		iS			20.6					iS			25.2				
	0		11	58.6					im			25.4			30	50	im			27.6		55		55
																		Boulder Dam						
	Blast Δ = 8 mi. NNW																iS	22	12	04.0		Δ = 10½ mi.		
																		Pierce Ferry						
8	eP	00	56	30.0					iP	00	56	20.9					iP	00	56	28.3				
	iP			31.0					iP			21.7					iP			29.6				
	eS			48.7					i			24.1					iS			50.1				
	iS			51.3			9		iS			33.8					iS			52.1				
									iS			35.6			45		iM			55.8				40
									i			41.5	Δ = 67 mi.											
	Local to regional shock.																							
8	eP	06	30	30.2					eP	06	30	33.0					iP	06	30	31.2				
																	iP			51.6				
8	eP	07	09	22.9					eP	07	09	21.2					iP	07	09	21.1				
																	iP			39.4				
9	iP	11	57	44.8					iP	11	57	44.5												
	i			54.4																				
	i		58	05.8																				
9	iP	20	16	10.6		-6	+17	-65									•	20	16	22.3				
	iS			11.8		+70	-28	+140									iS			31.5				
	im			11.9		-60	+150	-230																
	Local shock. Δ = 6½ mi.																							
9	iP	23	39	59.5		-4	+11	-65									iS	23	40	19.3				
	iS		40	00.7		+50	-25	+148																
	im			00.9		-55	+140	-200																
	Local shock. Δ = 6½ 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
	11	iP	01	04	08.4					iP	01	04	12.2					eP	01	04	11.0				
										iP			14.8					iP			11.5				
	11	e	02	57	31					e	02	57	38.5					i	02	57	36.8				
89	11	iP	04	46	50.8		-4	-5	+14	iZ	04	46	59.1					e	04	46	57.8				
		iP			51.4					e			59.7					iP			58.6				
		i			52.6				+36	iP		47	02.0					iP			59.0				
		iS			53.1		-45	+120	-90	iS			06.7					iS		47	05.1				
		O			47.4	Δ = 12 mi.				iS			07.4					iS			05.9				40
										O			48.4	Δ = 41½ mi.								Δ = 37½ mi.			
		Small local shock. Probable epicenter at 82 - 7 mi. SE of Boulder Dam.																							
	11	i	04	56	42.3					e	04	56	30.4					iP	04	56	31.3				
		i		57	11.3					iP			30.7					iP			34.3				
										iS			52.9					iS			57.7				
										iS			58.1					iS		57	00.3				
	11	iP	04	58	13.4					e?	04	57	50.0					iP	04	58	14.1				
	11	iP	12	12	50.0					e	12	13	02.5					i	12	12	53.0				
		i			51.0					iP			03.8					iP			57.2				
		i		13	17.2					iS		13	37.5					iS		13	31.7				
		iS			18.0					iS			40.2					iS			35.7				
		Regional shock. Δ = 135 mi.												Δ = 170 mi.								Δ = 160 mi.			
	11	e	18	55	15					e	18	55	25					eP	18	55	13				
	11	i	18	56	42.5					e	18	56	44.0					i	18	56	44.7				
	12	iP	02	27	34.9					e	02	27	38.7					iP	02	27	38.4				
	12	iP	05	22	55.1					iP	05	22	55.8					iP	05	22	57.6				
																		i		24	30.9				

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No. / Date	Station	Phase	Time h	Time m	Time s	Period T	Trace Amplitude E	Trace Amplitude N	Trace Amplitude Z	Remarks
12	BOULDER CITY	i	19	58	05.6			seismic?		
13	BOULDER CITY	e	04	05	36					
										Regional to distant shock.
13	BOULDER CITY	e	16	56	38					
13	BOULDER CITY	iP	18	56	57.9					
		i		57	04.6					
						Δ = 86°				
13	BOULDER CITY	iP	19	32	10.4		+35	-15	-290	
		iS			11.3		-95	-235	405	
		O			09.1	Δ = 4.8 mi.				
										Small local shock, felt in Boulder City.
13	BOULDER CITY	iP	22	01	51.5		+27	-13	-220	
		iS			52.3		-70	+280	305	
		O			50.3	Δ = 4.2 mi.				
										Small local shock.
13	BOULDER CITY	iP	23	29	41.0		+11	-18	+30	
		i			42.5		-14	+33	-75	
		iS			43.4		-30	+40		
		i			44.0				-93	
		im			46.1		140	120	250	
		O			38.7					
										Blast at Manganese Ore Company
14	BOULDER CITY	iP	01	32	40.6		+7	-8	-50	
		iS			41.5		+105	+80	+110	
14	BOULDER CITY	e	04	04	16.3					
		i			48.2					
14	BOULDER CITY									

No. / Date	Station	Phase	Time h	Time m	Time s	Period T	Trace Amplitude E	Trace Amplitude N	Trace Amplitude Z	Remarks
12	OVERTON									
13	OVERTON	e	04	03	16					
		i		05	48.5					
13	OVERTON	e	16	56	49.2					
13	OVERTON	e	18	57	02.0					
		e	19	00	44.7					
13	OVERTON	i	19	32	21.6					
		i			30.2		Δ = 44 mi.			
13	OVERTON	i	22	02	08.0					
		i			10.9					
		i			12.7					
13	OVERTON	i?	23	29	50.8					
		i		30	01.6					
14	OVERTON									
14	OVERTON	e	04	04	22.1					
					55.5					
14	OVERTON									

No. / Date	Station	Phase	Time h	Time m	Time s	Period T	Trace Amplitude E	Trace Amplitude N	Trace Amplitude Z	Remarks
12	PIERCE FERRY									
13	PIERCE FERRY	iP	04	03	05.4					
		i			09.9					
		iS		05	33.6					
		iS			41.0					
13	PIERCE FERRY	e	16	57	41.2					
13	PIERCE FERRY	e	18	57	00.3					
		i			01.8					
		e	19	00	38.6					
13	PIERCE FERRY	iP	19	32	22.5					
		iS			32.1				25	
						Δ = 48 mi.				
13	PIERCE FERRY	i	22	02	02.9					
		iS			13.0					
						Δ = 48 mi.				
13	PIERCE FERRY	iP	23	29	53.0					
		i		29	55.4					
		iS		30	03.9					
		iS			05.3				22	
14	PIERCE FERRY	iP	01	32	52.4					
		iS		33	02.2					
14	PIERCE FERRY	e	04	04	20.3					
		iS			51.4					
14	PIERCE FERRY	e	04	29	12.5					
		i			15.3					

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No. Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amp' rude 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	iP	08	49.	41.3					i	08	49	53.8					iP	08	49	38.3				
	iP			44.0					iS		50	45.0					iP			39.4				
	i			47.7													iS		50	37.2				
	iS		50	24.5				+28									i		50	41.5				
14	iP	12	21	51.7					e	12	22	12.2					iP	12	21	59.9				
	i		22	00.5					i			55.8					iP		22	09.9				
	iS		22	36.2													iS?			51.0				
	iS			40.0													iS			53.0				
																	i			55.4				50
	Regional shock. Δ = 245 mi.																				Δ = 290 mi.			
14	i	12	59	47					e	12	59	40					i	12	59	44.8				
14									e	18	30	04												
									e		31	17												
14	e	22	04	18					e	22	04	29												
	e		05	43					i		05	43.2												
15	e	00	06	00					e	00	06	00												
15									i	03	37	24.8												
									iS			38.0												
15	e	05	38	29.1					e	05	38	21												
	i			43.7					iP			38.5					Regional Shock N. California?							
	iS		40	35.8					iS		40	34.5												
15	iP	07	48	13.7				-22																
	iS			14.9		20	45	+50																
	Very small local shock. Δ = 6½ mi.																							
15	iP	15	36	02.7		-6	-8	+35																
	iS			03.7		+17	-37	70																
	m					45																		
	Very small local shock. Δ = 5½ mi.																							

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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
	15	BOULDER CITY								
		OVERTON	i	17	29					40
			i		34					60
			Two disturbances, seismic?							
90	15	BOULDER CITY	iP	20	29	16.3		+3	+3	+10
			i			24.1		-10		+17
			iS			25.9		+9	+13	-35
			im			26.8		-28	-18	55
			i			30.8		28	30	50
			0 Ave.			02.3		Δ = 49½ mi.		
		OVERTON	iP	20	29	12.3			-3	+7
			i			13.0				
			i			18.1			+8	
			iS			19.1			-12	
			i			24.1				45
			i			28.9			40	20
									Δ = 34 mi.	
		PIERCE FERRY	iP	20	29	05.3		-5		-110
			i			06.0				
			i			06.5				
			iS			07.1		-185		
			iS			07.7		4360		
			im			08.1		600		
								Δ = 10 mi.		
			Local shock, epicenter in Lake Mead 5 mi. NNW of Pierce Ferry.							
	15	OVERTON	iP	20	32	57.7				
			iP			58.2				
			iS			59.0				
			iS		33	00.0			75	50
			Local shock Δ = 7 mi.							
	15	BOULDER CITY	iP	21	06	15.7				
		OVERTON	iP	21	06	17.0				
		PIERCE FERRY	iP	21	06	17.5				
91	15	BOULDER CITY	i	22	14	46.3				
			i			47.5				
			iS			49.0		+40	+34	55
			Very small local shock Δ = 14 mi.							
		OVERTON	iS	22	15	03.4				
								Δ = 43½ mi.		
		PIERCE FERRY	i	22	14	53.2				
			i		15	01.4				
								Δ = 40 mi.		
			Epicenter 6 mi. SE of Boulder Dam. Focus 10 mi. deep.							
	16	PIERCE FERRY	e	05	35	59				
	16	BOULDER CITY	i	06	17	33.0				
			iS		18	59.1				
		OVERTON	iP	06	17	14.6				
			i			46.1				
			iS		19	02.0				
			iS			14.4				
		PIERCE FERRY	iP	06	17	19.9				
			i			40.2				
			iS		19	14.6				
			i			18.3				
	16	BOULDER CITY	iP	11	48	28.4				
		OVERTON	iP	11	48	30.6				
		PIERCE FERRY	iP	11	48	26.7				
	16	BOULDER CITY	iP	16	29	15.9		-3	-8	+24
			iS			17.1		-40	+60	-65
			Small local shock, Δ = 6½ mi.							

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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
16	iP	18	09	45.8					iP	18	09	51.6												
	iP			47.4					iP		10	00.0												
	i		10	12.7					i			12.8												
	iS			28.4					iS			29.6												
	iS			55.0					iS			49.8												
	iS		11	00.9		55	75	125	i		11	07.5												
									iM			19.5		140										
	Regional shock, Δ = 235 mi.																							
16	i	22	07	25.9		disturb		-7																
	iP	22	07	26.1		-9	+8	-25																
	iS			26.8		+90	+24																	
	iS			27.0				50																
	im			27.3		120	50	130																
	Small local shock Δ = 6 mi.																							
16	iP	22	23	38.3		+8	+8	-30																
	iS			39.5		-20	+100	+75																
	im			39.7		50		115																
	Small local shock Δ = 6½ mi.																							
16									i	23	32	47.4												
									i			48.8												
									iS			50.2				35								
									Small disturbance, seismic?															
16	iP	23	36	25.8		-30	+180		iP	23	36	35.6												
	iS			27.0					iS			43.7												
	im			27.5		375	790	1150	m			46.1				35								
	Light local shock Δ = 6½ mi. Felt by few in Boulder City.																							
17	iP	11	29	21.5		-6	-7	-35	iP	11	29	30.9												
	iP			24.8					iP			33.7												
	iP			28.5					i			40.2												
	iS		30	01.2		430	570	1200	iS		30	21.3				890								
	i			07.9																				
	Regional shock.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194 3 13.

Time used is G. C. T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Day of Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	iP	14	45	03.5		-9	+11	+36																
	iS			04.6		+30	-30	-25																
	Very small local shock Δ = 6 mi.																							
17	iP	15	09	15.5				+70	iP	15	09	15.9				-10								
17									iP	21	32	07.5												
									iS			09.8				45								
									local shock or disturbances.															
18	iP	07	43	15.4		-3	+7	-35																
	iS			16.3		+80	+95	-105																
	Small local shock Δ = 5 mi.																							
18									iP	18	32	48.4												
18	iP	18	50	17.1					iP	18	50	19.0												
18	iP	22	01	53.4				-20	iP	22	01	54.5				+33								
19	iP	06	48	29.1		-3	-2	-15	iP	06	48	19.0												
	i			29.8					iP			20.0												
	iS			49.9		+20	-10	-20	i			30.3												
	iS			30.3		+15	+30	+95	iS			32.0												
									iM			34.9				105								
19									i	22	05	11.0												
									iP			11.5												
									i			13.9												
									im			16.2				-120								
									Local shock or disturbance.															
19	e	23	53	08.3					e	23	53	09.0					i	23	53	20.5				
	e			38					i			53.6					i			51.3				
20	e	07	19	04.2					i	07	19	08.2					i	07	19	18.5				
20	iP	08	30	10.6					i	08	30	12.9					i	08	30	07.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1943 14.

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
20	iP	09	42	24.3		-4	+9	-30																
	iS			25.5		+35	+75	+50																
	im			25.8		40		115																
	Small local shock $\Delta = 6\frac{1}{2}$ mi.																							
20	iP	19	04	46.8					iP	19	04	50.6					iP	19	04	46.9				
																	e		10	49.3				
																	eL		17	31				
20	e	20	09	52.5					e	20	09	46					iP	20	09	42				
21	iP	19	47	09.8					iP	19	47	12.1					i	19	47	06				
	e		54	51					e		54	34.1					e		54	26				
22	i	00	40	33.5					i	00	40	51.5					i	00	40	41.8				
	i			41.6					iS		41	33.9					i			52.5				
	iS		41	12.9					iM			38.0				30	i		41	20.0				
	iM			17.2		30	40	55									iS			32.8		65		
	Regional shock. $\Delta = 190$ mi.?													$\Delta = 230$ mi.?								$\Delta = 225$ mi.?		
22	i?	21	01	17.6					i?	21	01	18.6					i?	21	01	26.3				
	iP			19.8		-5	-3	-18	iP			19.3					iP			27.1				
	i			22.5					i			21.7					i			30.6				
	iS?			34.1					iS?			35.9					iS?			45.9				
	iS			37.2		+20	+18		i			38.6					iS			49.9		+15		45
	iM			38		35	40	60	iS			40.0				-20	i			53.8				
	i			42.1	$\Delta = 90$ mi.				iS			42.0				20	0	21	00	54.0	Ave. $\Delta = 116$ mi.			
									i			46.4	$\Delta = 96$ mi.											
	Regional shock. Epicenter NW of Boulder City.																							
23	iP	05	18	33.7		-20	+20	+50																
	iS			34.7		-60	-125	+110																
	im			35.1		100	160	200																
	Small local shock $\Delta = 5\frac{1}{2}$ mi.																							
23																	iP	16	43	59.0				-60
																	iS		44	00.4		500		+245

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1943 15.

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
	23	iP	23	27	02.5		+20	-30	+65	iP	23	27	11.1					iP	23	27	14.2		-3		-10
		i			03.8					i			13.1					i			16.4				
		iS			04.8		+60	+30	+225	iS?			20.1					i			17.2				
		im			06.8		260	260	475	iS			22.2		22	23	20	iS		28	25.1		+20		-15
		Blast (13,000 lbs.)								i			23.8					iS			25.7				
																		i			32.3				
92	24	iP	02	56	45.9		+6	+5	-18	i	02	56	51.1					i	02	56	52.0				
		iS			48.9		-10	+20	0	i			51.4					iS			59.1		-9		
		iS			49.1		-15	-35	-40	i			56.9		+9	+10		iS			59.6				-30
		m			49.7				70	iS			57.8					0			41.5				
														Δ = 34 mi.								Δ = 37 mi.			
		Small swarm-type local shock Δ = 15½ mi. Epicenter 7 mi. NE of Boulder Dam.																							
	24	iP	09	38	34.1		-4	+2	+15									i	09	38	44.2				
		iS			35.6		+23	+20	+62									iS			54.7				-10
		Very small local shock. Δ = 8 mi.																							
	24																	iP	12	26	53.4				-25
																		iS			55.3				+120
																		Local shock.							
	24	e	13	34	34					i	13	31	11.8					i	13	31	14.3				
										iS		35	17.9					iS		35	10.1				
	24	.																i	16	42	25.4				
	24	iP	22	13	32.8		-9	-24	+90																
		iS			34.4		-58	+100	-130																
		im			34.6		120																		
		Small local shock Δ = 8½ mi.																							
	26	iP	05	00	29.1			-4	-6																
		iS			30.3		+44	-7	+38																
		im						30																	
		Very small local shock Δ = 6½ mi.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194 3 16.

Time used is G.C.T.

		BOULDER CITY							OVERTON							PIERCE FERRY						
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
Sta.	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
	26	iP	05	22	06.2		-7	-3	+6	i	05	22	11.5					iP	05	22	17.4				
		i			20.7					i			28.2					iS?			41.2				17
		i			24.6			15		im			29.5				10								
		im			25.9		14	10	26						Δ = 110 mi.							Δ = 135 mi.			
		Regional shock Δ = 102 mi. Epicenter NW of Boulder City.																							
	26	iP	07	28	02.9		0	+6	-8																
		iS			04.2		+105	+75	+95																
		Small local shock Δ = 7 mi.																							
93	26	iP	14	48	55.1		+10	+8	-40	iS	14	49	07.0					iP	14	49	01.6		+2		+13
		iS			58.1		+26	+23					Δ = 34 mi.					i			08.4				
		im			58.7		60	55	+95									iS			08.9		+40		+60
		0			50.7	Δ = 15½ mi.												im			09.3		125		145
		Small local swarm-type shock. Epicenter 7 mi. NE of Boulder Dam																				Δ = 38 mi.			
	26	iP	15	28	05.5		-7	+9	-12																
		iS			07.5		+12	+20	-30																
		im					60	40	60																
		Small local shock Δ = 10½ mi.																							
	26																	iP	20	30	19.2				
	26	iP	21	44	24.7					iP	21	44	24.5					iP	21	44	25.1				
		iSKP		47	38.4					iSKP		47	38.2					iSKP		48	40.5				
	26	iS	22	00	33.2	Δ = 57 mi.?				i	22	00	22.0	Δ = 34 mi.?				iP	22	00	11.5				+18
																		iS			15.5				+40
		Probable epicenter in Grand Wash N to NNE of Pierce Ferry																0			05.7	Δ = 21 mi.			
	26	iP	22	34	27.8					iP	22	34	25.7					iP	22	34	16.0				
		iPP		38	34.9					iPP		38	35.1					i			27.6				
						Δ = 6900 mi.												iPP		38	40.1				
		U.S.C. & G.S. epicenter 41° N 36° E																							
	27	iP	09	48	33.6		+7	+3	-15																
		iS			34.8		+50	-12	+40																
		im			34.9			35																	
		Very small local shock Δ = 6½ mi.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1943 17.

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									e	19	56	47					i	19	56	48				
27									iP	22	36	15.1												
									iS			17.5				22								
									im			19.8				40								
									Local shock, Δ = 12½ mi.															
28	iP	17	21	27.6													iP	17	21	26.8				+10
																	iP			31.2				+65
																	i			42.3				-70
28	iP	21	55	01.4					iP	21	55	04.4					iP	21	55	04.6				425
									iP			05.8					i			24.0				
29									iP	00	45	42.0					iP	00	45	37.7				
																	i			47.7				
29	iP	03	54	48.2				+17																
	iS			48.6				65																
	Very small local shock, Δ = 3½ mi.																							
29	iP	06	04	29.0					e	06	04	29.0					iP	06	04	33.0				
	i			33.5					iP			29.3					i			39.5				
	iS			59.0					i			33.5					iS		05	15.0				
	iS		05	00.7				25	iS		05	00.8												
									i			03.6				30								
29																	iP	10	18	45.9				
29	iP	10	45	23.1				-40																
	iS			24.9				50																
	Very small local shock.																							
29	i	12	34	22.2					iP	12	34	22.4					iP	12	34	30.6				
	iP			22.6					iP			24.3					iS			53.1				35
	i			36.8					iS			39.0												Δ = 115½ mi.
	iS			39.9				30	iS			41.0												
	0		33	57.3	Δ = 88 mi.				im			45.3	Δ = 85½ mi.			30								
	Regional shock, epicenter near Spotted Range NW of Lake Mead																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **November** 194**3** **18.**

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
29	iP	16	03	28.4													iP	16	03	17.6				
	iP			30.2													i			18.5				
	iS			44.2					Train Disturbance								i			23.6				
	i			47.2				20									iS			25.3				
																	im			25.8				85
	Regional shock				Δ = 82 mi.																Δ = 40 mi.			
29	iP	19	41	55.3		-8	+60	-240	i?	19	42	11.9					iP	19	42	06.2				
	iS			56.5		+70	-75	210					Δ = 38 mi.?				iP			08.7				
	0			53.6	Δ = 6½ mi.												iS			14.8				
																	iS			16.5	Δ = 44½ mi.			+20
	Small local shock probable epicenter 5 mi. NW of Boulder Dam.																							
29	iP	19	49	01.2					iP	19	49	03.0					iP	19	48	59.7				-80
	i			06.8													i		49	05.7				
	e	21	29	10					e	21	29	24					e	21	28	55.7				
																	iP			57.4				
																	i		29	10.5				
30	iP	00	29	12.5		+10	+14	+55									iP	00	29	07.7				
	iS			13.6		-90	-140	-100									i			15.4				
																	iS			16.1				35
	Small local shock				Δ = 6 mi.												iS			35.8	2nd shock			
94 30	iP	06	35	32.4		+5	+8	-22	iP	06	35	39.0					iP	06	35	40.0		-10		-45
	iS			34.9		+35	+65	-465	iS			45.3			18	15	iS			48.0		-55		-130
	im			35.3		270	225		i			58.0			24	22	im			49.2		130		
	0			28.7	Δ = 13 mi.								Δ = 36 mi.								Δ = 39½ mi.			
	Light local shock.																							
30	i	11	16	09.3					i	11	16	22.4					i	11	16	05.1				
	i			11.7					i			26.3					i			11.9				
	iS			50.1					iS		17	09.9					iS		17	03.8				
	iS			51.8				20	iS			14.6					i			07.2				35
									i			19.2				20								
	Regional shock.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

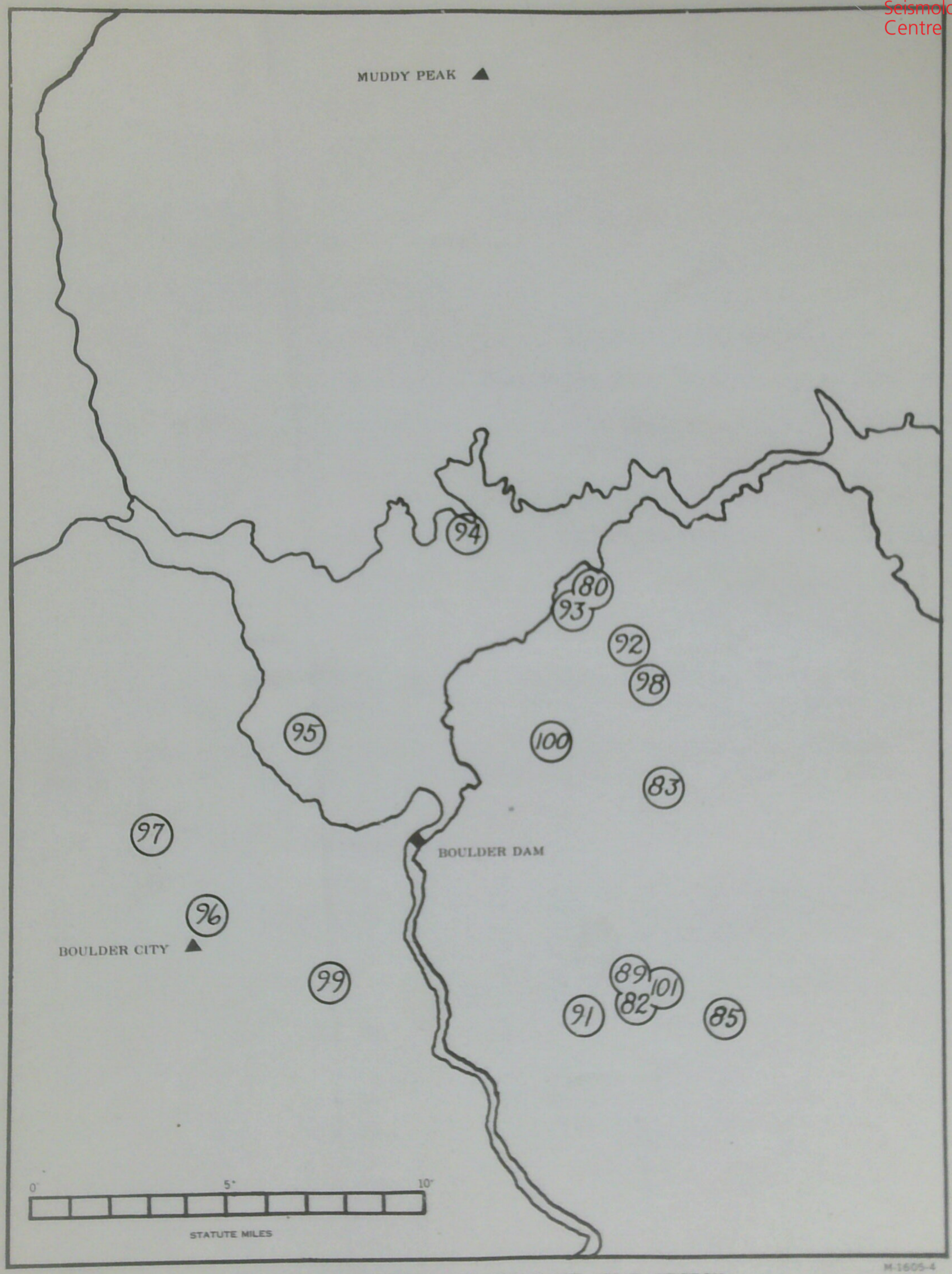
Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 194 3 19.

Time used is G.C.T.

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
30	i	16	06	34.7				+5
	iP			34.8		-8	+5	+50
	iS			37.4		-75	+50	375
	im			37.6		130	165	
	Small local shock Δ = 12½ mi.							
30	e	21	58	52				
	Regional shock.							
OVERTON								
	i	21	58	45.5				
	Train Disturbance							
	Probable epicenter 5 to 8 mi. SSE of Boulder Dam.							
PIERCE FERRY								
	iP	16	06	42.4		-5		-25
	iS			50.3		+30		-10
	im			51		+50		-60
	Δ = 41 mi.							
	iP	21	58	43.4				
	iP			47.3				
	i		59	04.6				
	i			18.8				

International Seismological Centre



TENTATIVE EPICENTERS IN THE LAKE MEAD REGION
October, November, December
1943

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . December, 1943

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
95	5	15h 24m 29s	Four miles NW of Boulder Dam in Lake Mead
96	8	20h 37m 33s	Half a mile NE of Boulder City. Probably 4½ mi. deep.
97	19	16h 29m 21s	Three miles NW of Boulder City.
98	22	06h 10m 29s	Seven and a half miles NE of Boulder Dam
99	25	06h 45m 07s	Four miles SW of Boulder Dam
100	27	03h 03m 07s	Four or six miles NE of Boulder Dam.
101	27	12h 09m 45s	Seven miles SE 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.		
—	5	11h 42m	II	Felt by one in Boulder City
—	5	03h 51m	II	Felt by one in Boulder City
95	5	15h 25m	II	Felt by one in Boulder City
—	6	02h 21m	II	Felt by few in Boulder City. Above four shocks reported on one card.
96	8	20h 38m	II	Probably felt in Boulder City. Telephone report gave it 17 minutes earlier.
97	19	16h 29m	III	Duration 5 sec. in Boulder City.
—	28	03h 11m	II	Felt by one in Boulder City.

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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								
1	iP	00	01	04.0		-14	+25	-90
	i			04.6				
	iS			05.2		+115	-105	175
	O			02.3	Δ = 6 mi.			
	Small local shock							
1	iP	06	18	40.0				
	i		19	02.7				
	ePP		22	46.5	Δ = 103°			
1	iP	07	28	21.8		+1	+8	-26
	iS			22.7		+55	-25	+45
	Small local shock				Δ = 5 mi.			
1	iP	10	45	56.1		+5	-5	-20
	i			59.3				
	ipP			25.2				
	eS		55	06				
	e		58	00	Distant earthquake Δ = 71°, h = 150 km.			
	U.S.C. & G.S. provisional epicenter 20.2°S lat. 68.1° W long.							
1	e	11	13	42				
1	iP	14	04	00.1		-3	-7	+15
	iP			05.9				
	iP			06.9		-15	-23	+40
	iS			47.2				
	iS			51.1				
	i			53.3				
	i			56.6	Δ = 208 mi.			
	Regional shock				Epicenter about 40 miles NE of Cedar City, Utah			
1								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	i?	00	01	25.7	Δ = 48½ mi.			
	i	06	18	43.3				
	iP	10	45	57.5				
	i			01.0				
	ipP			27.0				
	iP	14	03	52.0				
	iP			55.1				
	iP			56.2				
	iS		04	29.3				
	iS			34.2				
					Δ = 170 mi.			
	BOULDER DAM							
	e	14	04	02.9				
	iP			05.7				
	iS			44.8				
	i			51.0	Δ = 202 mi.			
	i	15	54	00				65
	Disturbance or local shock							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	i	00	01	15.2				
	iS			25.2	Δ = 47½ mi.			
	e	06	18	41.9				
	iP			45.3				
	iS		22	50.9				
	iP	10	45	54.0				
	i			57.2				
	ipP		46	23.8				
	e		54	56				
	e		55	50				
	iP	14	03	53.8				
	iP			57.1				-105
	iP			58.3				
	iS		04	33.0				
	iS			37.8				
	O		03	07.3 Ave.	Δ = 178 mi.			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF December 1943 2.

Time used is G.C.T.

BOULDER CITY

Dy. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	iP	18	22	14.6		+6	+15	-17
	i			17.0				
	is			17.2	+	+20	-25	-185
	im			17.5		100	70	280
	0			10.8	Δ = 13½ mi.			
	Small local shock							
2	iP	02	06	56.2		+3	+4	+10
	i		07	12.2				
2	ePP	05	26	49				
2	i	15	37	25	S			
3	e?	04	52	07				
	e		56	25				
3	iP	07	04	20.5		+3	-4	+18
3	is	23	18	07.6				
	Regional shock				Δ = 103 mi.			
3	iP	23	24	13.8		+30	-47	+100
	i			15.3		f	f	
	is			16.2		-65	-80	+70
	is			16.5			-160	-125
	im			19.1		500	350	600
	i			24.3		f	f	
	i			26.8		f	f	
	0			10.3				
	Blast							
	f = phase nullification							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
i	18	22	27.2	Δ = 34 mi.			
iP	02	06	59.4				
i		07	15.9				
ePP	05	26	44.7				
i			56.0				
e	04	52	08.5				
iP	07	03	50.2				
i		04	46.1				
is	23	17	49.8	Δ = 65½ mi.			
Epicenter 53 mi. NNE of Overton							
iP	23	24	23.0				
iP			24.0				
i			26.2				
i			28.2				
i			31.0				
i			33.6				
i			35.4				
i			39.0				
im			40.6				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	15	38	01.4				
iP	04	52	10.6				
i		56	15.0				
iP	07	04	23.3				
i			47.8				
iP	23	17	43.9				
is		18	01.2				
0			18.3	Δ = 89½ mi.			
BOULDER DAM							
i	23	24	17.3				
i			20.1				
im			25.5				
PIERCE FERRY							
iP	23	24	25.6		-4		-15
iP			26.5				
i			30.1				
i			33.8				
is			35.8		+20		-20
is			36.8		-57		+30
i			43.6				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1943 3.

Time used is G.C.T.

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**							
	4	i	20	15	48.9					i	20	15	32.2					i	20	15	33.7				
		i			53.8					iP			39.9					iP			38.9				
		i		17	17.6					i		17	19.9					iS		17	35.8				
		iS			35.1					iS			32.5												
	5	iP	01	10	38.7		+18	+26	-105									i	01	10	50.0				
		iS			39.8		+21	-37	+140									iS		11	00.1				
		im			40.1		70																		
		Small local shock Δ = 6 mi.																							
	5	iP	11	41	55.0			+4	+13																
		i			56.0				-23																
		iS			56.2		-30	-40	+50																
		Very small local shock. Felt by one in Boulder City.																							
	5	iP	13	50	35.1		+16	-12	+120	i	13	50	58.4					i	13	50	48.9				
		iS			36.3		+230	-290	375									iS			57.4				
		Small local shock Δ = 6 mi. Felt by one in Boulder City.																iS			58.2	Δ = 42 mi.			
95	5	iP	15	24	30.5		+57	+105	-410	i	15	24	39.8					i	15	24	41.6				
		iS			31.7		+135	-110	-350	i			41.1					iS			49.8				14
		im			32.0		165	175		i			48.0					iS			51.4				30
		O			28.8	Δ = 6 mi.				i			49.3	Δ = 38½ mi.								Δ = 44 mi.			
		Light local shock. Epicenter 4 mi. NW of Boulder Dam, 6 mi. NNE of Boulder City. Felt by one in Boulder City																							
	5	iP	16	18	51.8				+20																
		iS			53.1		-38	-60																	
		Very small local shock Δ = 6 mi.																							
	6	iP	02	18	22.8		-3		+10																
		iS			23.8		-20	+40	-35																
		Very small local shock Δ = 5 mi.																							
	6	iP	02	21	03.4		+26	-15	+200									iP	02	21	16.1				
		iS			04.6		450	-515										iS			25.7	40			
		O			01.5	Δ = 6 mi.																Δ = 50 mi.			
		Light local shock. Felt by few in Boulder City.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF December 1943 4.

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
7	e	01	13	04.9					e	01	13	07.3					iP	01	13	02.0	From SE			
	iP			06.4					iP			09.1					iP			04.6				
	i			29.9					i?			28.1					gS		21	57.6				
7									i	12	23	36.3					iP	12	23	31.6				
									i?			37.8					iS			49.2				
									iS?			50.5												
7	iP	15	11	49.2				+15																
	iS			50.5		-36	-56	-42																
	Small local shock Δ = 4 mi.																							
7	iP	17	21	01.2		-10	-12	+35																
	iS			03.0		+25	-18	+45																
	Very small local shock Δ = 9½ mi.																							
7	iP	17	58	57.2		+4	-4	+32																
	iS			58.5		-29	-50	+35																
	Very small local shock Δ = 7 mi.																							
7	i	21	59	32													i	22	06	16.0				
	Seismic waves?																							
8	iP	05	35	34.1		+7	+12	-34																
	iS			35.0		-10	-30	+72																
	im			35.5		135	80	265																
	Small local shock Δ = 5 mi.																							
8	iP	09	24	34.9													iP	09	24	34.6				
8	iP	09	32	44.4				-20																
	iS			45.6				25																
	Very small local shock Δ = 4 mi.																							
8	iP	10	54	49.5													e	10	54	54.2				
	iS		55	18.7													iP		55	00.8				
	Regional shock Δ = 140 mi.																iS			35.7	Δ = 175 mi.			

International Seismological Centre

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Time used is G.C.T.

Date		Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		BOULDER CITY							
	8								
	8	iP	19	44	45.2		-1	+7	+10
		eS		52	10.0				
		e		53	06.0	Distant earthquake SE.			
96	8	iP	20	37	34.6		+30	+28	-180
		iS			35.5		+90	-135	
		im			36		565	440	980
		0			33.3	Δ = 4.5 mi.			
		Light local shock, epicenter ½ mi. NE of Boulder City 4½ mi. deep. Probably felt in Boulder City by one.							
	8								
	8								
	9	iP	03	28	26.5	From NW			
	9								
	9	i	10	47	23.6				
		iP			29.6				
		iS			55.3				
		Regional shock.							
	9								
	9								

Date		Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		OVERTON							
		iP	19	44	46.6				
		i	20	37	45.9		-4		
		i	20	37	54.4				+5
		i			55.7		+5		
						Δ = 44 mi.			
		iP	22	43	42.0				
		i			43.1				
		im			46.3				75
		Local disturbance.							
		iP	03	28	54.6				
		i	10	47	15.5				
		iP			20.8				
		i			35.1				
		i			43.2				

Date		Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		PIERCE FERRY							
		e	18	30	00.0				
		iS			47.8				
		iP	19	44	42.7				
		eS		51	49.8				
		e		53	55.0				
		e	20	37	45.9				
		iP			46.2				
		iS			55.5				
		iS			57.0	Δ = 47 mi.			
		i	22	38	46.3				
		i	22	43	21.2				
		i			32.1				
		i			34.1				-15
		iP	03	28	29.5				
		iP	06	01	40.7				
		iS			57.8				
		iS		02	01.2				
		iP	10	47	15.7				
		iP			16.5				
		iS			32.5				
		iS			35.1				75
		iP	14	49	00.5				-12
		iS			01.6				52
		Very small local shock Δ = 6 mi.							
		iP	14	50	04.2				
		iS			27.6				

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Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9																	i	15	42	03.8				
																	i			05.8				
9	iP	17	06	56.8				-20	iP	17	06	47.8												
	iP			60.1					iP			49.6					0	17	06	16.0				
	i		07	24.0					iS		07	10.9					iP			50.3				
	iS			28.0					iS			14.0	Δ = 114 mi.				iP			52.3				
	Regional shock Δ = 140 mi, epicenter to NE. Felt in Cedar City, Utah																iS		07	13.6				
																III	iS			16.8	Δ = 120 mi.			645
9	iP	17	18	57.1					i	17	18	45.2					i	17	18	47.3				
	iS		19	25.8				18	iP			45.7					iP			49.8				
									iS		19	06.9					iS		19	12.9				
									iS			09.6		34	-	30	iS			17.1				85
	Regional shock. Felt in Cedar City, Utah																							
9	i	21	56	40.8					i	21	56	37.3					iP	21	56	33.6		+35		
	i			44.4					i			41.6					iS			34.3		+240		970
	i			50.5					i			45.4			16	23								
	i			51.8		17	13	27									Local shock Δ = 4 mi.							
	i			52.2																				
9	PIERCE FERRY								PIERCE FERRY															
	iS	22	36	51.6		70																		
	iS		45	36.1		145																		
	iS			54.5		80																		
9	i	23	26	49.5																				
	iS			50.7	Δ = 6½ mi.																			
10	iS	00	08	28.0		110																		
10	i	01	11	17.8																				
	iS			19.0		100																		
10	i	02	47	59.0	Δ = 6½ mi.																			
	iS		48	00.2		150																		
10	iP	02	49	58.7		+10																		
	iS			59.9		190	Δ = 6½ mi.																	

International Seismological Centre

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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
10	iS	02	56	40.7		-70		
10	i	03	30	25.1		+20		
	iS			26.3		-300		
10	i	06	31	49.7		-4		
	iS			50.7		-105		
10	iS	08	28	55.7		-60		
10	iP	08	37	19.4		+13		+80
	iS			20.7		-38		200
					Δ = 7 mi.			
10	i	08	52	23.3		-8		
	iS			23.8		-70		
					Δ = 3 mi.			
10	i	08	58	31.9		+8		
	iS			32.3		-50		
					Δ = 2½ mi.			
10	iP	11	00	11	Time?			
	iS			20		20		
	Regional shock				Δ = 97 mi.			
10	iP	11	30	19.8		+4		+30
	iS			21.0		-103		-48
	Small local shock				Δ = 6½ mi.			
10	iP	12	13	06.2		-8		
	iS			06.8		-58		
	Small local shock				Δ = 3½ mi.			
10	i	13	29	55.0				
	iS			56.3		-15		
	Small local shock				Δ = 7 mi.			

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

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1943 8.

Time used is G.C.T.

Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
10									

International Seismological Centre

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MONTH OF December 1943 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
13																	iP	06	50	14.1		-6		-42
																	iS			15.8		-60		+35
																	Local shock				Δ = 9 mi.			
13																	e	16	07	33.8				
13	iP	16	10	16.7		+11	+20	-70									i	16	10	14.8				
	iS			17.8		+32	-38										i			21.5				
	Very small local shock				Δ = 6 mi.																			
13																	i	16	30	03.4				
																	iP			03.9				
																	iS			04.7		-72		
																	Local shock				Δ = 4 mi.			
13									i	20	17	55.8												
									i			59.2				30								
									Local shock															
13	i	23	22	58.6													iP	23	23	26.7				
																	iP			29.0				
																	iS			44.6				
	Regional shock Δ = 93 mi.																							
14	iP	09	42	37.9		+9	-12	+35																
	iS			39.0		+45	+38	-35																
	Very small local shock Δ = 6 mi.																							
14	i?	16	07	28.5	S												iP	16	07	56.1				
14	iP	20	01	47.4					iP	20	01	49.8					iP	20	01	50.5				
15	iP	00	01	52.9					iP	00	01	54.9					iP	00	01	47.2				
15	iP	02	59	14.3					iP	02	59	17.9					iP	02	59	14.1				
15	iP	16	49	18.4		-7	+4	-10	i	16	49	30.0				5								
	iS			21.6		-20	+13	+21																

International Seismological Centre

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Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
Day Date	Phase	Time h	m	s	Period T	Trace Amp'rude 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									iP	19	11	35.2												
									iS			36.9												
									i			37.9				50								
									Local shock or disturbance															
15	iP	20	27	56.5																				
	iS			57.4		28	40	30																
	Very small local shock					Δ = 5 mi.																		
16	iP	01	36	30.0		+5	+9	-17																
	iS			31.4		+37	-14	-57																
	Very small local shock					Δ = 7½ mi.																		
16	iP	08	53	32.8		+6	-10	+24																
	iS			33.9		+26	+25	-27																
	Very small local shock					Δ = 5 mi.																		
17	iP	00	20	19.6					iP	00	20	18.2												
	iP			20.7					iP			22.7	S											
	iS			59.2					iP			24.3												
	iS		21	03.3					i			26.0												
	iS			07.3		35	46	50	iS		21	06.0												
	Regional shock								i			10.4				185								
17	iP	03	55	30.9					i	03	55	30.0												
	i		56	08.6					iP			36.5												
	Regional shock								iS		56	16.2				20								
17	i	04	38	47.4					eP	04	38	49.8				-4	iP	04	38	56.5	S			
	iP			48.4		-2	-6	+7	iP			52.3					iP			58.5				
	iP			52.7		-6	-3	-30	i			56.8					iP		39	03.8				+52
	iP			54.0		+40	-40	+120	i			57.4					i			05.0				
	i		39	32.5					i			59.1				+70	iS			51.4				
	i			34.5					iS		39	37.8					iS			56.3		185		150
	i			37.1		57	70	82	i			44.6		280	215		i		40	02.6				
	i			43.9	Δ = 201 mi.				i			50.1	Δ = 213 mi.			200	0		37	54.7	Δ = 252 mi.			
	Regional shock, epicenter probably in Owens Valley																							

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MONTH OF December 1943 11.

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
17	i	04	50	39.9					i	04	50	44.8					iP	04	50	49.3				
	i		51	22.9					iS		51	26.9					iS		51	32.7				
									i		52	10.2												
	Regional shock																							
17	iP	07	06	56.1		+4	-4	-20																
	iS			57.4		+37	+26	+37																
	im			57.7			42																	
	Very small local shock					Δ = 7 mi.																		
17	iP	14	06	52.7					iP	14	06	52.0					iP	14	06	54.1	From NW			
18	iP	06	59	10.3		+1	+3	-9																
	iS			11.6		+18	-44	-33																
	Very small local shock					Δ = 7 mi.																		
18	iP	07	57	50.0					iP	07	57	49.5					iP	07	57	51.7	From NW			
18																	iP	16	42	18.1				
18																	iP	19	26	23.0				
18	i	23	59	21.1					i	23	58	52.6					iP	23	58	54.8				
																	iS		59	19.5				27
19	i	00	00	03.2																				
19									i	00	41	36.9					i	00	41	39.0				
																	iP			41.2				
																	iS		42	10.6				
																	iS			11.4				
19	iP	01	55	05.6				+5																
	iS			06.2		-11	-38	-53																
	Very small local shock					Δ = 3 mi.																		

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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									
97	19	iP	16	29	22.5		+125	-105	+
		iS			23.7		+101	+385	+975
		0			20.8	Δ = 6.3 mi.			
		Light local shock							
		Good epicenter three miles NW of Boulder City.							
	20	iP	10	40	22.4				
	20	iP	13	36	24.5				
	21	iP	01	48	49.5		+45	-72	+165
		i			51.8		+170		
		iS			52.2		+245	+155	
		Blast at Manganese Ore Mine?							
	21	e	07	48	44.5				
		iP			46.8				
		i		49	11.4				
		iS			25.5	Δ = 205 mi.			
		Regional shock. Epicenter to eastward.							
	21	i	07	58	18.6	Δ = 37½ mi.			
		Local shock							

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	iP	16	29	33.3		+9	+12	
	iS			41.8		+25	+20	
	i			43.5		+13	-35	207
					Δ = 43.8 mi.			
	BOULDER DAM							
	iP	16	29	23.0		+0.5mm.		
	iS			24.7		-2.0mm.		
	OVERTON							
	iP	10	40	23.0				
	iP	13	36	26.9				
	iP	01	48	58.8		-4	-2	-7
	iS?		49	08.1				
	iS?			08.9			+20	
	BOULDER DAM							
	iP	01	48	52.4				
	iS?			57.2				
	OVERTON							
	e	07	48	40.7				
	iP			43.0				
	i		49	18.0				
	iS			23.5	Δ = 195 mi.			
	e	07	58	16.0				
	e			22.9				

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	iP	16	29	34.2		0		-12
	iS			43.8		0		+52
	iS			44.5		+48		+53
	iS			44.8				-135
					Δ = 48.1 mi.			
	eP	10	40	24.2	From NW			
	iP			25.3				
	iP	13	36	27.6	From SW			
	iP	01	49	01.1		-4		-20
	i			02.6				
	iS			12.0		+40		-30
	im			13.5		-95		70
	iP	07	48	30.4				
	iP			32.6				
	iP			34.6				
	iS		49	01.2		-77		
	iS			02.1		10		
	i			03.6				
	im			06.3		165		
					Δ = 160 mi.			
	iP	07	58	04.4		+2		+16
	iS			07.0		-52		48
					Δ = 13½ mi.			

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Time used is G.C.T.

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
	21	iP	13	54	41.8					iP	13	54	41.5					iP	13	54	37.0				
	21	i?	20	04	28.8																				
		iP			29.8	U.S.C. & G.S. provisional epicenter 13° N, 70.5° W.												iP	20	04	31.7				
	21	e	22	14	38.8	From SW																			
																		iP	22	14	32.2				
98	22	iP	06	10	34.1		+7	+7	-22	iP	06	10	39.4				+5	iP	06	10	39.7				-14
		iS			37.1		-27	+27	-60	iP			39.8		+3	+7	+4	iS			46.9		43		
		iφ			37.8		57	55	105	iS			46.3		-14	+12	-7	iS			47.2				115
		0			29.7	Δ = 15½ mi.				BOULDER DAM				Δ =	34½	mi.						Δ = 35½ mi.			
										iS	06	10	34.0		0.5	Δ = 10	mi.								
		Small local shock, epicenter 7½ miles NE of Boulder Dam.																							
										OVERTON															
	22	iP	07	10	54.6					iP	07	10	56.9					iP	07	10	51.0	From S or SE			
		ipP		11	25.9					ipP		11	33.2					ipP		11	22.4	h = 70 mi.			
	22	iP	13	01	25.4					e	13	01	29.5					iP	13	01	24.8	From SE			
	22	iP	15	50	59.9		-17	-7	-23	iP	15	51	09.4					iP	15	51	06.8		+73		+425
		i		51	03.2					iP			16.2					i			12.9				
		iP			05.0	Δ = 150 mi.?								Δ = 190 mi.				iS?			44.9	Δ = 180 mi.			
		Regional shock																BOULDER DAM							
		Reported felt in 29 Palms area in southern California																iP	15	51	00.8		0.5		
																		iP			05.2		5		
																		i			27.2				
																		iS			31.1		10		
																		iS			35.6		30mm.		
																		0	15	50	21	Δ = 150 mi.?			
	22																	PIERCE FERRY							
																		iP	16	24	41.5	C			
	23	iP	02	59	34.9		+26	-13	-130	i?	02	59	56.3					i	02	59	45.9				
		iS			35.8		-72	+105		0			33.3					iS?			55.9				-8
		Small local shock Δ = 5 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
23	iP	09	25	49.9					iP	09	25	51.2					iP	09	25	16.7	C			
23	iP	10	14	54.5		-6	+2	+29																
	iS			56.1		-16	+63																	
	Small local shock																							
23	iP	16	04	27.1					iP	16	04	25.3					iP	16	04	20.9				
									iP			27.5					iP			22.6				
	U.S.C. & G.S. provisional epicenter								13.3° N., 70.4° W.								i			35.7				
23	iP	16	30	18.5					iP	16	30	17.9					iP	16	30	13.7	C			
23	iP	19	13	31.1					eP	19	13	29.7					iP	19	13	31.2				
	iP			41.7					iP			41.3					iP			43.0				
																	i		17	10.9				
	U.S.C. & G.S. provisional epicenter								6° S, 152° E								i			22.6				
																	is?		26	03.5				
																	el		43	62.4				
23									iP	19	46	51.5					i	19	47	00.2				
									iP			52.6					i			10.6				
									i			53.6												
									is			54.8												
									Local shock															
23	iP	20	41	03.1					iP	20	41	05.3					iP	20	41	06.3	C			
24	iP	01	08	37.2					iP	01	08	06.8					iP	01	08	32.1	From SW			
24	iP	02	01	20.8					iP	02	01	23.6					iP	02	01	20.8				
	C & S																iP			24.2				
24	C								iP	05	11	09.6					iP	05	11	11.7				
24																	iP	06	02	31	C			
24																	eP	10	32	19.7				
																	is		33	20.4				
																	Regional shock							

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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
	24																	iP	11	30	58.3				
	24	iP	11	57	52.7	S				iP	11	57	53.4	C				iP	11	57	54.6				
	25	i	04	44	17.6	C				i	04	45	30.8					iP	04	45	31.9				
		i		45	28.5																				
99	25	iP	06	45	08.7		+60	-22	-265	iP	06	45	20.1					iP	06	45	19.9				+5
		iS			09.6		+103	+195		i			28.5		8			iS			28.7				22
		im			10.0		150	200		0			27.4									Δ = 44½ mi.			
						Δ =	4.5	mi.						Δ =	44	mi.		BOULDER DAM							
		Small local shock, epicenter 4 mi. SW of Boulder Dam																iS	06	45	09.6		1.5	mm.	
																							Δ = 5 mi.		
																		PIERCE FERRY							
	25	iP	06	46	07.1		+7	+6	-30																
		iS			07.9		-15	+24	-32																
	25									e	07	47	08					iP	07	46	57				
	25	iP	08	20	15.7					e	08	20	18.4					iP	08	20	11.9	Probably SE			
		i			21.4					iP			23.3					iP			16.9				
		i		23	26.1					iS		23	48.1					iS?		22	59.9				
		iS?			34.8					iM			08.1				135	iS		23	03.8				
																		iM		24	00.3		270		490
	25	i	10	42	45.6					iP	10	42	52.7					i	10	42	12.4				
		i?		45	44					iS?		46	12.7					iP			14.0				
		i		46	02.5													iS?		45	55.4				
	26	iP	05	01	59.5					iP	05	02	02.9					iP	05	01	56.9	From SE			
		eS?		08	14.5					eS?		10	15												
	26	iP	11	12	40.3		+40	+64	+8																
		iS			41.9		+85	+145	-68																
		im			42.2				115																
		Small local shock Δ = 9½ mi.																							

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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
	26	iP	11	13	03.6				-6	i	11	13	27.1												
		iP			04.0		+8	+8																	
		iS			04.6		-46	+110	-52																
		im			04.8		60		82																
		Small local shock				Δ = 3 to 5 mi.																			
100	27	iP	03	03	12.2		+6	+4	-14	i	03	03	18.4					iP	03	03	18.7				
		iS?			14.7		-15	-13		i?			25.8		-4	+10		iS			26.4				
		iS			15.2		+21	+12		0			07.5									Δ = 40 mi.			
						Δ = 15½ mi.								Δ = 38 mi.											
		Very small local swarm-type shock.								Tentative epicenter near Fortification Hill 4 or 6 mi. NE of Boulder Dam															
	27	iP	03	40	42.3		+9	+8	-16	i?	03	40	55.7					iP	03	40	49.1		-6		
		iS			45.2		+32	-25						Δ = 30½ ? mi.				iS			56.5		+20		
						Δ = 15 mi.																Δ = 33 mi.?			
		Very small local swarm-type shock.								Epicenter probably 10 mi. NE of Boulder Dam.															
	27	iP	04	08	17.5					iP	04	08	20.7					iP	04	08	20.0	S			
101	27	iP	12	09	49.0		-4	+1	+6	i	12	09	59.8					i	12	09	56.6				
		iS			51.4		-23	+42	+40	iS		10	05.4					iS		10	03.3		20		22
		0			45.5	Δ = 12½ mi.								Δ = 41½ mi.								Δ = 37 mi.			
		Very small local shock. Tentative epicenter 7 miles SE of Boulder Dam.																							
	27	iP	22	14	33.2			-3	-6									iP	22	14	40.4		-3		-15
		iS			35.7		-34	-25	+38									iS			48.4		+23		
		Very small local shock Δ = 13 mi.																							
	28	iP	03	11	09.6		+7	-7	+44																
		iS			10.6		-31	-48	+39																
		Very small local shock Δ = 5½ mi.								Felt in Boulder City by one person.															
	28	iP	07	52	00.0			-5	-3									iP	07	52	07.4				-12
		iS			02.6		-22	-13	-35									iS			15.4		+25		
		im			02.9		55	45	83																
		Small local shock Δ = 13½ mi.																							

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G.C.T. 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																								
28																	iP	10	23	40.8				
28																	iP	12	05	25.8				
	iP	14	25	35.1					No time control								e	14	25	29.0				
	i		26	40.7													iP			38.2				
	Regional shock?				Δ = 430 mi.												is?		26	45				
																					Δ = 450 mi.			
29									e	18	27	16.7												
									i			20.3				65								
									Local disturbance or shock.															
29																	iP	20	11	10.5				
29									i	21	14	11.6												
									i			15.4				60								
									Local shock or disturbance															
29	iP	21	26	34.3		+7	-5	-11																
	iS			35.1		+80	+125	-40																
	im			35.3				110																
	Small local shock Δ = 4 mi.																							
30	iP	06	37	40.9	S				i	06	37	42.0	C				iP	06	37	43.3				
	e		41	55.3					i		41	58.5					i		41	58.2				
30	iP	07	49	12.5	S				iP	07	49	15.8					iP	07	49	15.3				
30									iP	09	10	17.8					iP	09	10	18.4				
30	iP	10	32	17.2	S				iP	10	32	20.2					iP	10	32	20.2				
30																	iP	22	16	14.5	S & C			