

LAKE MEAD SEISMOLOGICAL STATIONS
INSTRUMENTAL REPORT
LOCAL EARTHQUAKES
January, February, March, 1948

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout January, February and March 1948.

In the following report symbol I represents shocks with small trace amplitudes, II represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

Beginning with this issue, the instrumental reports of the Lake Mead Stations will cover only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U. S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Location of Epicenters</u>
1	1-8-48	17:23:01.4	10 miles SW of Hoover Dam
2	1-14-48	04:04:54.4	6 miles north of Hoover Dam
3	1-26-48	16:30:33.2	10 miles SW of Hoover Dam
4	1-29-48	10:40:38.7	8 miles SSE of Hoover Dam
5	2-3-48	11:25:45.1	7 miles SW of Hoover Dam
6	2-20-48	01:16:44.5	7 miles NW of Hoover Dam
7	2-20-48	19:40:43.9	6-1/2 miles NW of Hoover Dam
8	2-20-48	23:06:25.1	7 miles NW of Hoover Dam
9	2-21-48	02:43:32.0	8-1/2 miles NW of Hoover Dam
10	2-22-48	02:45:21.3	5.8 miles NW of Hoover Dam
11	3-1-48	01:30:03.3	9 miles NNW of Hoover Dam
12	3-20-48	01:17:13.3	13 miles NW of Hoover Dam
13	3-24-48	10:03:55.2	8 miles SW of Hoover Dam
14	3-24-48	20:53:39.2	11 miles north of Hoover Dam
15	3-24-48	21:01:44.7	11 miles north of Hoover Dam
16	3-24-48	21:44:13.0	6 miles north of Hoover 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. (Abridged)

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Intensity and Description</u>
--	1-9-48	06:10:44	III at Boulder City (Felt by few)
--	2-1-48	06:49:58	III at Boulder City (Felt by few)
5	2-3-48	11:25:45.1	IV at Boulder City (Felt by several; rattled windows)
8	2-20-48	23:06:25.1	III at Boulder City (Felt by few)
--	2-29-48	23:30:03	II at Boulder City (Felt by Observer)
13	3-24-48	10:03:55.2	III at Boulder City (Felt by few)

LAKE MEAD SEISMOLOGICAL STATIONS
Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF **January** 194 **48** 1.
Time used is **GCT**

No. **1073-4**
Date

BOULDER CITY

OVERTON

PIERCE FERRY

No.	Date	Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude			
			h	m	s		E	N	Z		h	m	s		E	N	Z		h	m	s		E	N	Z	
2		1	04	19		Trace Local - 5 mi				Provisional epicenters due to lack of N - S control with Overton discontinued																
2		1	11	37		Trace Local - 5 mi																				
3		9	Traces Local - 5 mi																							
4		1	03	04		Trace Local - 5 mi																				
4		1	12	25		Trace Local - 5 mi																				
5																										
5																										
6																										
7		1	05	34		Trace Local - 10 mi																				
8		1P 18	17	23	01.4 02.6	-	+?	+																		
(1)			1 Local - 3.6 mi SSW																							
EPICENTER NO. 1 - 10 mi SW of Hoover Dam																										

EPICENTER NO. 1 - 10 mi SW of Hoover Dam

1P 18 17 23 13.3 22.5
1(s) 50 mi

Trace Local - 28 mi

1 Local - 14 mi

11 38
Trace Local

11 40 57.5

41 00.3

21 01 54.5
02 00.1

LAKE MEAD SEISMOLOGICAL STATIONS
 Bureau of Reclamation, National Park Service
 and Coast and Geodetic Survey

MONTH OF **January** 194 **8** 2.
 Time used is **GCT**

BOULDER CITY

OVERTON

PIERCE FERRY

No.	Date	Phase	Time			Period	Trace Amplitude			Phase	Time			Period	Trace Amplitude			Phase	Time			Period	Trace Amplitude		
			h	m	s	T	E	N	Z		h	m	s	T	E	N	Z		h	m	s	T	E	N	Z
9		IP IS	06	10	44.8 45.8		-	+	-																
			I Local - 5 mi																						
9			10	05																					
			11	01																					
		2	Traces Local - 5 mi																						
9		IP IS	12	37	05.8 07.0																				
			I Local - 6 mi																						
9		1	18	25																					
			Trace Local - 5 mi																						
10		1	09	38																					
			Trace Local - 5 mi																						
10		1	10	23																					
			Trace Local - 5 mi																						
11		1	00	00																					
			Trace Local - 5 mi																						
12		1	12	56																					
			Trace Local - 10 mi																						
13		3	Traces Local - 5 mi																						
13																									
13																									
13																									

IP 18 11 16
 I 18 12 30.3
 IS 18 12 37.3
 Trace Local - 35 mi

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF

January

194 8

3.

Time used is

GOT

International
Seismological
Centre

BOULDER CITY

OVERTON

PIERCE FERRY

No. 1
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

IP
IS

04 04 54.4
56.6
I Local - 9 mi

+10 +1 -20

EPICENTER NO. 2 - 6 mi North of
Hoover Dam

IP
IS

04 04 02.1
10.4
Trace - 41 mi

14

1

05 25
Trace - 8 mi

15

IP
IS

00 01 41.6
50.6
Trace - 7 mi

-10+20 +

15

1

11 23
Trace - 8 mi

15

1

21 22
Trace - 5 mi

16

1

03 26
Trace - 5 mi

16

1

23 57
Trace - 10 mi

19

1

06 05
Trace - 5 mi

23

1

00 11
Trace - 5 mi

(3) 26

IP
IS

16 30 33.2
34.8
II Local - 6 mi SSE of Boulder City

-30 +61 +102

EPICENTER NO. 3 - 10 mi SW
of Hoover Dam

1(P)
IS

16 30 45.0
53.4
Trace - 42 1/2 mi

607

[illegible]

5

GOVT

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS
INSTRUMENTAL REPORT
LOCAL EARTHQUAKES
April, May, June, 1948

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout April, May and June 1948.

In the following report symbol I represents shocks with small trace amplitudes, II represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

This report covers only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U. S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Location of Epicenters</u>
17	4-1-48	06:29:01.0	13 miles NNE of Hoover Dam
18	4-6-48	11:21:45.3	1 mile NE of Hoover Dam
19	4-6-48	19:05:29.3	9½ miles NW of Hoover Dam
20	4-6-48	19:23:04.3	1 mile N of Hoover Dam
21	4-7-48	01:15:23.0	1 mile NE of Hoover Dam
22	4-9-48	18:30:34.9	8 miles SW of Hoover Dam
23	4-12-48	18:40:11.3	11 miles SW of Hoover Dam
24	4-17-48	10:40:59.7	40 miles E of Hoover Dam
25	4-23-48	10:26:17.1	6½ miles SE of Hoover Dam
26	4-23-48	10:47:06.7	Same as No. 25
27	4-24-48	18:40:38.8	9 miles SW of Hoover Dam
28	4-28-48	06:07:01.2	9 miles SW of Hoover Dam
29	5-2-48	18:39:38.0	10 miles SW of Hoover Dam
30	5-3-48	02:05:49.0	6 miles N of Hoover Dam
31	5-3-48	10:32:25.5	3½ miles SW of Hoover Dam
32	5-3-48	14:41:05.8	10 miles SW of Hoover Dam
33	5-6-48	20:13:11.2	4 miles NE of Hoover Dam
34	5-7-48	08:18:49.1	9½ miles SW of Hoover Dam
35	5-8-48	07:27:03.0	12 miles SSW of Hoover Dam
36	5-8-48	07:27:34.0	9 miles SSW of Hoover Dam
37	5-9-48	00:23:59.8	5 miles SE of Hoover Dam
38	5-9-48	19:23:59.4	9 miles SSW of Hoover Dam
39	5-13-48	03:21:48.6	9½ miles SW of Hoover Dam
40	5-14-48	10:55:46.6	8½ miles SW of Hoover Dam
41	5-16-48	17:22:48.2	10 miles SW of Hoover Dam
42	5-17-48	14:46:07.0	8 miles NW of Hoover Dam
43	5-22-48	08:19:10.5	6 miles W of Hoover Dam
44	5-31-48	07:37:21.7	9 miles SW of Hoover Dam
45	6-3-48	22:34:22.8	6 miles N of Hoover Dam
46	6-10-48	09:40:08.2	5 miles NNW of Hoover 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. (Abridged)

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Intensity and Description</u>
28	4-28-48	06:07:01.2	IV at Boulder City (Felt by several, rattled windows)
29	5-2-48	18:39:38	III at Boulder City (Felt by few)
31	5-3-48	10:32:25	IV at Boulder City (Felt by several, rattled windows)
32	5-3-48	14:41:06	IV at Boulder City (Felt by several, rattled windows)
34	5-7-48	08:18:49	IV at Boulder City (Felt by several, rattled windows)
36	5-8-48	07:27:34	IV at Boulder City (Felt by several, rattled windows)
37	5-9-48	00:23:59	IV at Boulder City (Felt by several, rattled windows)
-	5-9-48	18:53:04	IV at Boulder City (Felt by several, rattled windows)
38	5-9-48	19:23:59	II at Boulder City (Felt by Observer)
40	5-14-48	10:55:46	III at Boulder City (Felt by few)
41	5-16-48	17:22:48	III at Boulder City (Felt by few)
43	5-22-48	08:19:10	I at Boulder City (Felt by very few under favorable circumstances)
-	6-9-48	13:24:34	III at Boulder City (Felt by few)

Confidential - not for publication

LAKE MEAD SEISMOLOGICAL STATIONS
Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

BOULDER CITY

MONTH OF
Time used is

APRIL 19 48 2.
607

PIERCE FERRY

No. Date	Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude		
		h	m	s		E	N	Z		h	m	s		E	N	Z		h	m	s		E	N	Z
7 (21)	1P 1S	01	15	23.0 24.7 6 1/2	11 HB	+5	+10	-									e(P) 1S	01	15	31.4 39.5 40.9				
		I Local - 6 1/2 mi HB								EPICENTER NO. 21 - 1 mi HB of Hoover Dam								40.9 mi W						
8 - 9	5	Traces - 5 mi																						
9 (22)	1P 1S	18	30	34.9 36.1		-90	+130	+?									1P 1S	18	30	45.8 55.3 47				
		I Local - 3.5 mi SE								EPICENTER NO. 22 - 8 mi SW of Hoover Dam								47 mi SW						
11	1P 1S	08	44	08.3 09.5		-	+	+																
		Trace - 3.5 mi SE																						
12 (23)	1P 1S	18	40	11.3 13.0		-100	+130	+									1P 1S	18	40	22.6 31.8 49.7				
		I Local - 6 1/2 mi SSE								EPICENTER NO. 23 - 11 mi SW of Hoover Dam								49.7 mi SW						
12																	1P 1S	22	34	30.6 32.4		+10	+10	-30
																		I Local - 7 mi HB						
14																	1P 1S	01	58	57.4 59.0		+5	-10	-
																		Trace - 6 mi SE						
15																	1P 1S	06	21	29.5 30.7		-?	-	+?
																		Trace - 3 1/2 mi SW						

LAKE MEAD SEISMOLOGICAL STATIONS
Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

BOULDER CITY

MONTH OF April 1948
Time used is GCT

PIERCE FERRY

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

15	e(P) 1S	10	42	12.7 13.0		?	?	?																
17	e(P) 1S	10	40	59.7 41 06.9		+	?	?																
(24)		Trace -	45.8	m1	SB																			
17																								
17																								
18	eP 1S	05	58	31.3 33.8		?	?	-																
		Trace																						
22 - 23	5	Traces, approx.	5	m1																				
23	1P 1S	10	26	17.1 18.2		-200	+140	+																
(25)		III Local -																						
23	1P 1S	10	47	06.7 07.9		-190	+130	+																
(26)		III Local -																						

EPICENTER NO. 24 - 40 m1 E
of Hoover Dam

EPICENTER NO. 25 - 6 1/2 m1 SW
of Hoover Dam

EPICENTER NO. 26 - Same as
No. 25

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600

PIERCE FERRY

[illegible]

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Time used is

PIERCE FERRY

[illegible]

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

9

PIERCE FERRY

[illegible]

BOULDER CITY

OVERTON

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF

Time used is

19

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BOULDER CITY

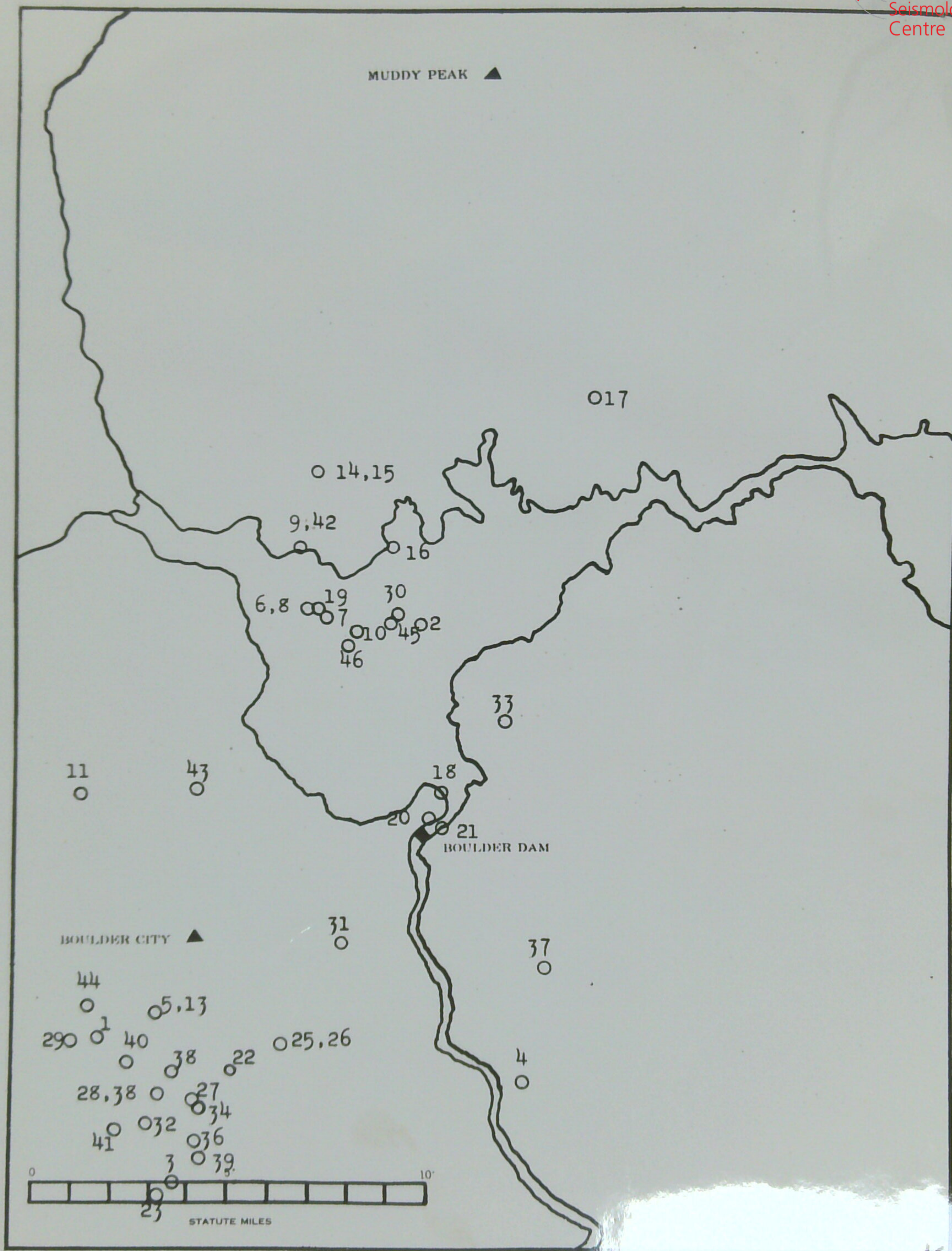
OVERTON

PIERCE FERRY

[illegible]

MONTH OF May & June 19 48 9.
Time used is 607

[illegible]



TENTATIVE EPICENTERS - JANUARY TO JUNE 1944

LAKE MEAD SEISMOLOGICAL STATIONS
INSTRUMENTAL REPORT
LOCAL EARTHQUAKES
July, August, September, 1948

The stations at Boulder City and Pierce Ferry operated on a routine schedule throughout July, August and September, 1948.

In the following report symbol I represents shocks with small trace amplitudes, II represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

This report covers only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U. S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Location of Epicenters</u>
47	7-6-48	13:31:14.0	10 miles SW of Hoover Dam
48	7-6-48	13:26:31.3	Same as No. 47
49	7-20-48	06:41:55.9	6 miles SW of Hoover Dam
50	9-5-48	21:16:38.2	6½ miles S of Hoover Dam
51	9-16-48	19:20:50.0	12 miles SW of Hoover Dam
52	9-21-48	19:40:44.7	10½ miles NW of Hoover Dam
53	9-27-48	17:53:46.4	12 miles SW of Hoover 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 (Abridged)

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Intensity and Description</u>
47	7-6-48	13:21	IV at Boulder City (Felt by several, rattled windows)
48	7-6-48	13:25	IV at Boulder City (Felt by several, rattled windows)
49	7-20-48	06:42:56	II at Boulder City (Felt by Observer)
-	9-1-48	05:42:17	IV at Boulder City (Felt by Observer)
50	9-5-48	21:16:38	III at Boulder City (Felt by few)

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **July**
Time used is **6:07**

Time used is

1948 I.

BOULDER CITY

OVERTON

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS
 Bureau of Reclamation, National Park Service
 and Coast and Geodetic Survey

MONTH OF **July & August** 19 **48** 2.
 OCT
 Time used is

BOULDER CITY

OVERTON

PIERCE FERRY

No. Date	Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude		
		h	m	s		E	N	Z		h	m	s		E	N	Z		h	m	s		E	N	Z
<u>August</u>																								
25	1P 1S	11	06	12.5 13.1																				
		Trace - 3 ml																						
5	1P 1S	04	43	13.0 14.0																				
		Trace - 2½ ml																						
6																								
12	1P 1S	12	06	50.5 02.0																				
		Trace																						
13	1P 1S	17	29	53.6 55.0																				
		Trace																						
14																								
18 - 19	5	Traces - 5 ml																						
22		Heavy microseisms																						
24	1P 1S	15	49	05.7 06.7																				
		Trace - 2½ ml																						
30	1P 1S	12	08	33.9 35.3																				
		1 Local - 2 ml																						

1P 11 09 no time correction
 Trace - 11 ml
 1P 12 08 no time correction
 1P 13 12 no time correction
 1P 17 01 no time correction
 II Local - 3 1/2 ml

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September

Time used is

GCT

1948

3.

BOULDER CITY

OVERTON

PIERCE FERRY



M 073-4

No.
Date

Phase

Time
h m s

Period
T

Trace Amplitude
E N Z

Phase

Time
h m s

Period
T

Trace Amplitude
E N Z

Phase

Time
h m s

Period
T

Trace Amplitude
E N Z

1

LP
LS

05 42 17.8
18.8
I Local - 2 1/2 mi SSE

Period
T

Trace Amplitude
E N Z

-50 +200 +

2

LP
LS

06 26 30.8
31.6
I Local - 1 1/2 mi SW

Trace Amplitude
E N Z

-10 +30 +

2

LP
LS

19 25 37.0
38.5
Trace 5 mi

Trace Amplitude
E N Z

? ? ?

3

LP
LS

21 16 38.2
40.2
III Local - 8 mi SW

Trace Amplitude
E N Z

-140 +? +

5

LP
LSW

03 30 30.9
31.6
I Local - 1 1/2 mi SE

Trace Amplitude
E N Z

-10 +30 +

(50)

LP
LSW

08 33 07.0
08.0
Trace - 7 mi

Trace Amplitude
E N Z

16 46 24.3
25.5
Trace - 3 1/2 mi

6

LP
LS

12 25 23.6
31.7
32.0
I Local - 4 1/2 mi SW

Trace Amplitude
E N Z

? ? ?

9

LP
LS

16 47 05.0
12.1
I Local - 3 1/2 mi SW

Trace Amplitude
E N Z

+ + +

11

LP
LS

21 16 48.5
56.5
42 mi SW

Trace Amplitude
E N Z

+ + +

REPORT NO. 50 - 6 1/2 mi S
of Hoover Dam

MONTH OF September 19 48 4.
007

5

PIERCE FERRY

No. Date	Phase	Time h m s	Period T	Trace Amplitude		
				E	N	Z
15	IP IS	11 12 28.3 31.3 Trace - 14 ml				
16		Heavy microseisms - no record of shock				
16 (51)	IP IS	19 20 50.0 51.7 II Local - 6.4 ml SW		+45	+28	+
19	IP IS	02 18 06.1 10.0 Trace - 20 ml				
20						
21 (52)	IP IS	19 40 44.7 47.2 I Local - 11 ml NNE		+15	+110	-
22	IP IS	09 02 42.7 43.8 Trace - 3 ml				
23	IP IS	17 34 57.5 58.5 Trace - 3 ml				
24						

NO. 51
DATE

NO. 52
DATE

EPICENTER NO. 51 - 12 ml SW
of Hoover Dam

EPICENTER NO. 52 - 10½ ml NW
of Hoover Dam

5

100

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS
INSTRUMENTAL REPORT
LOCAL EARTHQUAKES
October, November, December, 1948.

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout October, November and December, 1948.

In the following report symbol I represents shocks with small trace amplitudes, II represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

This report covers only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U. S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Location of Epicenters</u>
54	10-11-48	01:12:01.0	2½ miles SE of Hoover Dam
55	10-24-48	22:06:37.3	5½ miles NNW of Hoover Dam
56	10-24-48	23:37:10.3	5½ miles NW of Hoover Dam
57	10-31-48	22:26:39.8	7 miles N of Hoover Dam
58	11-2-48	17:58:34.3	3½ miles W of Hoover Dam
58(a)	11-2-48	16:48:09.0	3½ miles SW of Hoover Dam
59	11-2-48	18:15:23.1	Same as No. 58
60	11-2-48	21:04:25.3	Same as No. 58
61	11-2-48	23:47:25.4	Same as No. 58
62	11-4-48	12:08:25.5	Same as No. 58
63	11-5-48	23:33:07.8	Same as No. 58
64	11-7-48	02:58:30.6	11 miles SW of Hoover Dam
65	11-9-48	00:06:31.5	Same as No. 58
66	11-14-48	02:54:59.4	7 miles SW of Hoover Dam
67	11-16-48	21:54:44.4	Same as No. 58
68	11-21-48	01:05:55.5	7 miles NW of Hoover Dam
69	11-22-48	00:37:05.2	3½ miles W of Hoover Dam
70	11-27-48	16:05:18.3	3½ miles SW of Hoover Dam
71	12-12-48	20:43:55.3	5 miles NW of Hoover 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. (Abridged)

<u>No.</u>	<u>Date</u>	<u>G. C. T.</u>	<u>Intensity and Description</u>
55	10-24-48	22:06:37	II at Boulder City (Felt by Observer)
-	10-25-48	15:56:29	II at Boulder City (Felt by Observer)
58(a)	11-2-48	16:48:08	VI at Boulder City (Felt by all, many frightened; cracked plaster)
58	11-2-48	17:58:34	IV at Boulder City (Felt by several, rattled windows)
59	11-2-48	18:15:23	IV at Boulder City (Felt by several, rattled windows)
61	11-2-48	23:47:25	III at Boulder City (Felt by few)
62	11-4-48	12:08:55	IV at Boulder City (Felt by several, rattled windows)
63	11-5-48	23:32:38	II at Boulder City (Felt by Observer)
65	11-9-48	00:06:31	II at Boulder City (Felt by Observer)
69	11-22-48	00:37:06	II at Boulder City (Felt by Observer)
71	12-12-48	20:44:55	II at Boulder City (Felt by Observer)

Confidential - not for publication

LAKE MEAD SEISMOLOGICAL STATIONS
 Bureau of Reclamation, National Park Service
 and Coast and Geodetic Survey

MONTH OF **October** 1948
 Time used is **GCT** 1.

BOULDER CITY

OVERTON

PIERCE FERRY

No. Date	Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude		
		h	m	s		E	N	Z		h	m	s		E	N	Z		h	m	s		E	N	Z
4	1P 1S	19	41	02.8 04.0		+15	+16	+									e(s)	19	41	24.6				
		Trace - 3½ ml SW																						
8	1P 1S	18	26	37.5 38.5		+	?	?																
		Trace - 2½ ml																						
8																								
10 - 11	6	Traces - 5 ml																						
11 (54)	1P 1S	01	12	01.0 03.0		-10	-10	+									1P 1S	01	11	08.6 16.7		+	+	+
		1 Local - 8.2 ml ME																						
14	1P 1S	02	58	51.0 52.0		-	+	+																
		Trace - 2½ ml SW																						
21	eP 1S	03	23	22 23																				
		Trace - 2½ ml																						
21	1P 1S	12	45	47 48		-	+	+																
		Trace - 2½ ml SW																						
21																								
22																								
		Trace - 5 ml																						

EPICENTER NO. 54 - 2½ ml SE
 of Hoover Dam

3 Traces - 5 ml

07 16
 22 46
 Trace - 5 ml

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

1948

2.

GET

OVERTON

PIERCE FERRY

No.	Date	Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude		
			h	m	s		E	N	Z		h	m	s		E	N	Z
23			07	16													
			Trace - 5 mi														
24			20	43													
			21	35													
			Trace - 5 mi														
24		1P	22	06	37.3		+75	+130	-								
(55)		1S	II Local - 3.5 mi NNE														
24		1P	23	37	10.3		+75	+100	-								
(56)		1S	I Local - 5 mi NNE														
25		1P	03	17	19.1		+	+	-								
		1S	Trace - 9 mi NE														
25		1P	15	21	08.4		?	?	+								
		1S	Trace - 20 1/2 mi														
25		1P	15	56	39.8		+20	+50	+								
		1S	41.0														
			3 1/2 mi SW - I Local														
25		eP	17	31	11.0		?	?	-								
		1S	13.0														
			Trace - 8 mi														
			EPICENTER NO. 55 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 56 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 57 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 58 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 59 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 60 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 61 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 62 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 63 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 64 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 65 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 66 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 67 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 68 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 69 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 70 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 71 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 72 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 73 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 74 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 75 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 76 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 77 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 78 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 79 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 80 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 81 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 82 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 83 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 84 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 85 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 86 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 87 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 88 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 89 - 5 1/2 mi NW of Hoover Dam														
			EPICENTER NO. 9														

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

3.

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November
Time used is GGT

Time used is

GCT

1948

$$3(a)$$

BOULDER CITY

OVERTON

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF

November

19 48

74.

Time used is

GCT

BOULDER CITY

OVERTON

PIERCE FERRY

Date	Time	Phase	h	m	s	Period T	Trace Amplitude		
							E	N	Z
3		5	Traces - 5 m1						
(59)	2	1P	18	15	23.1		+70	+200	-
		1S			24.3				
			II Local - $3\frac{1}{2}$ mi NE						
(60)	2	1P	21	04	25.3		+70	+?	-
		1S			26.5				
			Trace - $3\frac{1}{2}$ mi NE						
(61)	2	1P	23	47	25.4		+70	+150	+?
		1S			26.4				
			I Local - $3\frac{1}{2}$ mi NE						
3 - 4	3	1P	Traces - 5 m1						
		1S							
4	4	1P	09	00	56.0		+70	+120	-
		1S			57.4				
			I Local						
(62)	4	1P	12	08	25.5		+?	+?	-?
		1S							
			Trace fades out						
			III Local - $3\frac{1}{2}$ mi NE						
4 - 5	7	1P	Traces - 5 m1						
		1S							

Date	Time	Phase	h	m	s	Period T	Trace Amplitude		
							E	N	Z
58	2	1P	18	15	33.6				
		1S			42.6				
			44 $\frac{1}{2}$ mi W						
58	2	e(P)	21	04	36.0				
		1S			44.5				
			44 $\frac{1}{2}$ mi W						
58	2	1P	23	47	34.3				
		1S			44.3				
			44 $\frac{1}{2}$ mi W						
58	3	1P	21	40	43.5				
		1S			44.0				
			Trace - 1 mi						
58	4	1P	12	09	36.0				
		1S			44.2				
			43 mi W						
58	4	1P	EPICENTER NO. 62 - Same as No. 58						
		1S							

609

PIERCE FERRY

No. _____
Date _____

No.	Date	Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude			Phase	Time			Period T	Trace Amplitude		
			h	m	s		E	N	Z		h	m	s		E	N	Z		h	m	s		E	N	Z
5-6		6	Traces - 5 mi																						
5 (63)		1P	23	33	07.8		+?	+?	-		EPICENTER NO. 63 - Same as No. 58						1P	23	33	18					
		1S			09.0				1S										27						
			II Local - $3\frac{1}{2}$ mi NE															43 mi W							
6-7		3	Traces - 5 mi															19 55) $\pm$ 20 mi 21 57) Trace							
7 (64)		1P	02	58	30.6		+	-	+		EPICENTER NO. 64 - 11 mi SW of Hoover Dam						1P	02	58	42.5					
		1S			32.1				1S										52.0						
			I Local - 5 mi SW															50 mi SW							
8		1P	18	35																					
			Trace																						
		1P	10	48	45.0		-	-	+								1P	00	06	41.5					
		1S			46.0				1S										50.5						
			I Local - $2\frac{1}{2}$ mi NW															43 $\frac{1}{2}$ mi W							
9 (65)		1P	00	06	31.5		+20	+70	-		EPICENTER NO. 65 - Same as No. 58						1P	00	06	41.5					
		1S			32.2																				
			I Local - 3 mi NE																						
9			13	44																					
			Trace																						
10		1P	17	59	16.0												1P	21	22	41.5					
		1S			17.0				1S										47.0						
			Trace - $2\frac{1}{2}$ mi															I Local - $3\frac{1}{2}$ mi							
11																									

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

Time used is

GCM

19 48

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OVERTON

PIERCE FERRY

International
Seismological
Centre

No.	Date	Phase	Time			Period T	Trace Amplitude			Epicenter	Remarks
			h	m	s		E	N	Z		
14	(66)	1P 1S	02	54	59.4					Epicenter NO. 66 - 7 mi SW of Hoover Dam	
16											
16	(67)	1P 1S	21	54	44.4					Epicenter NO. 67 - Same as No. 58	
16 - 17		5									
17											
21	(68)	1P 1S	01	05	55.5					Epicenter NO. 68 - 7 mi NW of Hoover Dam	
20 - 21		13									
21		1P 1S	06	39	11.0						
22	(69)	1P 1S	00	37	05.2					Epicenter NO. 69 - 3 1/2 mi W of Hoover Dam	

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November and 19 48

Time used is GCT December

7.

Boulder City

OVERTON

PIERCE FERRY

[illegible]

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF

December

19 48

8.

Time used is

GCT

BOULDER CITY

OVERTON

PIERCE FERRY

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

21

01 09
Trace

21

17 48
Trace

21

21 32
Trace

22

05 57
Trace

22 - 23

4
Traces - 5 mi

23

1P 06 06 13.4
1S 14.6
I - II Local - 3 mi SW

+20-40 -

24

12 45
Trace

25

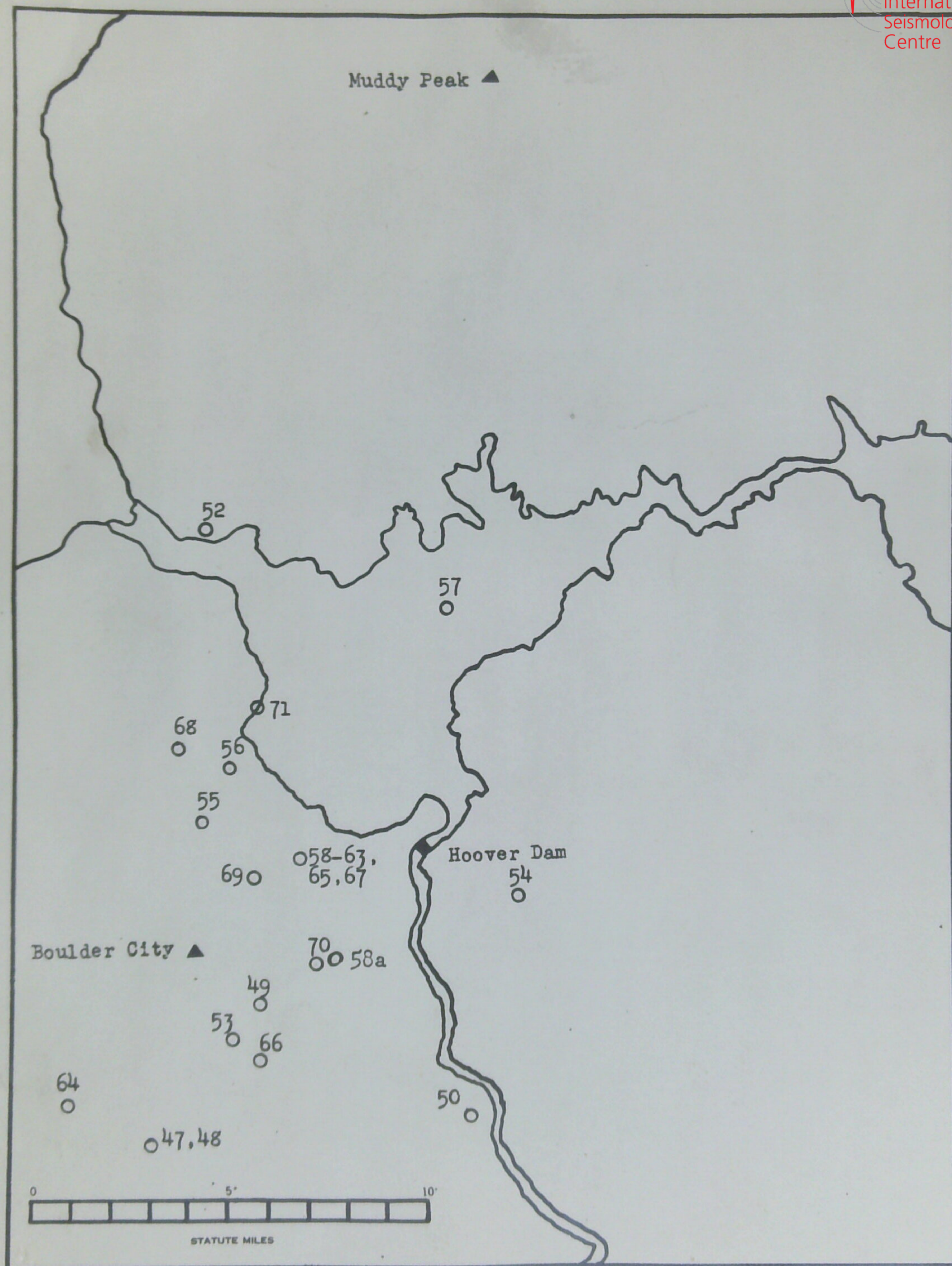
1P 03 05 55.0
1S 56.0
I Local - 2 1/4 mi SW

+ (+) (+)

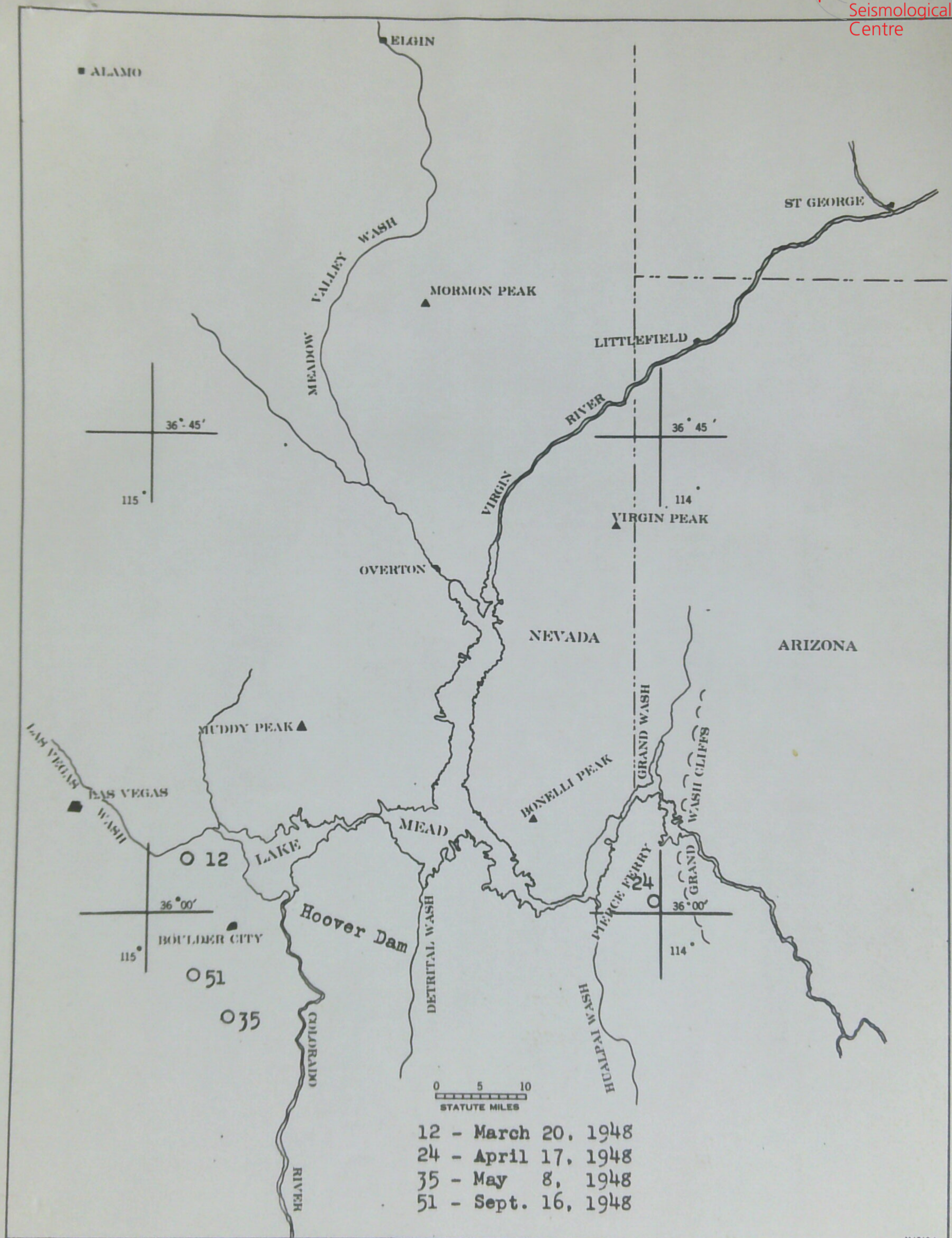
31

17 35
21 35
Trace

•(P) 06 06 23.4
i(S) 32.9
Approx. 45 mi W



TENTATIVE EPICENTERS - JULY - DECEMBER 1948



SUPPLEMENTAL EPICENTERS - 1948