

University of Tasmania

Geology Department

FORT NELSON SEISMOLOGICAL STATIONProvisional Bulletin

Address: The Professor of Geology, University of Tasmania, Box 647c,
Hobart, Tasmania.

Vault location: Fort Nelson, latitude $42^{\circ}55'35''S$, longitude $147^{\circ}21'10''E$,
altitude 209 m.

Foundation: Jurassic dolerite.

Instruments: (interim installation pending permanent base equipment).
Sprengnether Series H horizontal pendulum EW, $6\frac{3}{4}$ secs.
Willmore short period vertical.

Limitations: This station is only in process of establishment.
Inexperienced operators are in training. Chronometer at present only
read to half second. Improved installation proposed.

No.	Date 1958	Phase	Time (G.M.T.)	Remarks
			h. m. s.	
1.	January 1	iPg EZ iPn E iS E	00 07 35 00 07 39 00 07 45	Rarefaction D 88-90 km. H 00 07 24 Local shock. Felt in Hobart.
2.	1	iP Z eS Z	05 00 55 05 01 08	Rarefaction. $\Delta 1^{\circ}$ H 05 00 37
3.	1	iP Z iS Z	09 46 41 09 46 59	Compression $\Delta 1.5^{\circ}$ H 09 46 16
4.	1	iP Z	14 29 01	Rarefaction
5.	1	eL E	23 37 48	
6.	5	eP Z i Z i Z ipP Z i Z i Z i Z i Z iS E eL E	08 13 16 08 13 18 08 13 24 08 13 27 08 13 37 08 14 18 08 14 26 08 15 25 08 19 55 08 25 38	Rarefaction $\Delta 51.5^{\circ}$ H 08 04 12
7.	5	iP Z i Z i Z ipP Z	12 35 26 12 35 29 12 35 42 12 35 47	Rarefaction



No.	Date 1950	Phase	Time (G.M.T.)	Remarks
8.	January 8	iP eS	Z Z 19 52 17 19 52 31	Masked by microseisms. Δ 1 H 19 51 59. Local shock.
9.	13	iP i ipP	Z Z Z 09 02 03 09 02 08 09 02 13	Compression
10.	14	iP i ipP i e e e	Z Z Z Z Z Z Z 07 26 05 07 26 12 07 26 15 07 26 26 07 28 00 07 28 15 07 28 20	Compression
11.	14	iP	Z 15 07 09	Compression
12.	15	eP i i epP isP i i i(PP)	Z Z Z Z Z Z Z Z 22 22 24 22 22 28 22 22 31 22 22 32 22 22 40 22 22 48 22 23 07 22 23 57	Rarefaction.
13.	16	iP i	Z Z 04 24 15 04 24 22	Compression
14.	16	eP i	Z Z 11 10 16 11 10 23	Compression
15.	17	iP i ipP i i i	Z Z Z Z Z Z 04 22 26 04 22 30 04 22 37 04 22 40 04 22 48 04 23 27	Rarefaction
16.	17	iP e iPP iPPP i i i i eS eT	Z Z Z Z Z Z Z Z Z Z 07 17 45 07 17 50 07 18 00 07 18 17 07 18 30 07 18 56 07 19 07 07 19 20 07 19 31 07 26 45	Compression Δ 9.4° H 07 15 28
17.	18	iP i i(pP) i i	Z Z Z Z Z 09 43 15 09 43 16 09 43 23 09 43 30 09 43 33	Rarefaction
18.	23	iPKP i	Z Z 13 54 57 13 55 00	

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No.	Date 1958	Phase	Time (G.M.T.)	Remarks
19.	January 24	iP Z i Z i Z ipP Z i Z i Z i Z	00 00 02 00 00 03 00 00 06 00 00 12 00 00 14 00 00 18 00 00 27	Rarefaction
20.	27	iP Z i(sP) Z	07 52 03 07 52 37	Compression
21.	30	iP Z i Z ipP Z i Z	05 05 51 05 05 54 05 06 01 05 06 08	Rarefaction
22.	30	eP Z e Z isP Z i Z i Z i Z o E iPPP Z iS E eL E	06 20 36 06 20 38 06 20 50 06 20 53 06 21 11 06 21 37 06 21 37 06 22 22 06 26 21 06 29 16	Rarefaction Δ 37.8° H 06 03 20

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				h.	m.	s.	
23.	February 1	iP	Z	20	07	25	Rarefaction
		i	Z	20	07	27	
		i	Z	20	07	30	
		i	Z	20	07	39	
		i	Z	20	07	56	
24.	7	iP	Z	23	31	05	Compression
		i	Z	23	31	09	
		i	Z	23	31	11	
		i	Z	23	31	32	
25.	10	eP	Z	15	12	01	Compression
		i	Z	15	12	19	
		i	Z	15	12	22	
		i	Z	15	12	25	
		i	Z	15	12	33	
		i	Z	15	12	34	
26.	13	eP	Z	01	17	22	Compression
		i	Z	01	17	36	
		i	Z	01	17	52	
		i	Z	01	17	54	
		i	Z	01	18	11	
27.	16	iP	Z	11	20	07	Masked by micro- seisms.
		e	Z	11	20	10	
		i	Z	11	20	13	
		i	Z	11	20	21	
		e	Z	11	20	29	
		i	Z	11	20	41	

No.	Date 1958	Phase	Time (G.M.T.)	Remarks
28.	February 16	iP Z i Z i Z i Z i(PP) Z	23 55 08 23 55 11 23 55 15 23 55 40 23 57 26	Rarefaction
29.	18	iP Z i Z epP Z i Z	05 52 40 05 52 48 05 52 50 05 52 56	Rarefaction
30.	18	i Z i Z	19 19 17 19 19 23	Rarefaction
31.	18	iP Z ipP Z i(PP) Z	19 59 47 19 59 59 20 00 16	Compression
32.	19	iP Z e Z i Z	19 34 14 19 34 28 19 34 39	Rarefaction
33.	20	e E	11 41 53	
34.	20	iP Z epP Z e Z i Z i Z e Z	12 13 15 12 13 25 12 13 30 12 13 37 12 14 01 12 14 23	Compression
35.	20	epP Z i Z i Z	12 00 38 12 00 45 12 01 09	Compression
36.	23	iP Z	00 07 41	Rarefaction
37.	23	iP Z i Z	10 12 22 10 12 28	Compression
38.	23	iP Z ipP Z i(PP) Z i Z	10 53 34 10 53 44 10 53 38 10 54 31	Rarefaction
39.	27	iP Z i Z ipP Z i Z i Z	23 39 03 23 39 09 23 39 13 23 39 30 23 40 04	Compression

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Foundation: Jurassic dolerite.

Instruments: (interim installation pending permanent base equipment).
Sprengnether Series H horizontal pendulum EW, $6\frac{3}{4}$ secs.
Willmore short period vertical.

Limitations: This station is only in process of establishment.
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No.	Date 1958		Phase		Time (G.M.T.)			Remarks
					h.	m.	s.	
40.	March	2	iP	Z	23	12	47	Compression
			i	Z	23	12	50	
			e	Z	23	12	52	
			ipP	Z	23	12	57	
			i	Z	23	13	11	
			i	Z	23	13	15	
			i	Z	23	13	31	
			i	Z	23	13	47	
41.		3	iP	Z	04	12	59	Rarefaction
			i	Z	04	13	02	
			i	Z	04	13	06	
			ipP	Z	04	13	09	
42.		5	eP	Z	11	37	16	Masked by micro-seisms.
			i	Z	11	37	34	
			i	Z	11	37	40	
43.		5	iP	Z	19	55	44	Compression
44.		9	iP	Z	10	28	16	Rarefaction
			i	Z	10	28	21	
			isP	Z	10	28	37	
			i	Z	10	28	56	
			i	Z	10	35	03	
			eL	Z	10	36	29	
45.		9	iP	Z	11	31	54	Compression

No.	Date 1958	Phase	Time (G.M.T.)	Remarks
46.	March 11	iP EZ i Z ipP Z i Z e Z i(PcP) EZ i Z i Z e E eL E iS E	00 37 16 00 37 20 00 37 23 00 37 27 00 37 33 00 37 38 00 38 19 00 39 03 00 41 27 00 43 53 00 46 48	Compression Δ 74° H 00 25 42 h 60km. Record confused by persons in vault.
47.	11	iP Z i Z ipP Z i Z iPcP Z iS Z	14 05 46 14 05 51 14 06 05 14 06 37 14 08 28 14 11 11	Rarefaction Δ 34° H 13 59 03
48.	23	iP Z i Z	10 25 35 10 25 37	Compression
49.	25	iP Z i Z	08 30 38 08 30 41	Compression
50.	30	iP Z i Z i Z ipP Z i Z i Z	17 38 59 17 39 03 17 39 06 17 39 09 17 39 21 17 39 26	Rarefaction

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Instruments: (interim installation pending permanent base equipment). Sprengnether Series H horizontal pendulum EW, $6\frac{3}{4}$ secs. Willmore short period vertical. (only from 1st to 16th April).

Limitations: This station is only in process of establishment. Inexperienced operators are in training. Chronometer at present only read to half second. Improved installation proposed.

No.	Date 1958	Phase	Time (G.M.T.)	Remarks
			h. m. s.	
51.	April 2	iP Z i Z	10 57 57 10 57 58	Compression
52.	4	iP Z ipP Z	02 02 40 02 02 50	Rarefaction
53.	4	iP Z i Z epP Z isP Z i Z i Z	07 24 08 07 24 12 07 24 19 07 24 24 07 24 27 07 24 59	Compression
54.	4	eP Z ipP Z i Z i Z i Z eL E	07 37 09 07 37 18 07 37 26 07 37 35 07 37 46 07 47.6	Compression Duration 26 mins.
55.	4	i E i E eL E	08 18 17 08 31 19 08 33.5	Duration 29 mins.
56.	4	iP Z ipP Z esP Z i Z i Z eL E	15 45 22 15 45 30 15 45 36 15 45 47 15 46 09 15 57.9	Rarefaction



No.	Date 1958	Phase	Time (G.M.T.)			Remarks
			h.	m.	s.	
57.	April 7	iP Z	03	41	07	Rarefaction
		i Z	03	41	11	
		iPcP Z	03	41	15	
58.	7	i E	16	11	26	
		e E	16	30	42	
59.	8	iP Z	13	28	44	Rarefaction
		i Z	13	28	56	
		i Z	13	29	12	
60.	10	iP Z	03	43	28	Rarefaction. Small local shock
61.	11	iP Z	21	43	47	Compression
62.	11	iP Z	23	24	27	Compression
		i(PcP) Z	23	24	33	
		ipP Z	23	24	39	
		i Z	23	25	17	
63.	11	iP Z	23	32	58	Compression
		i Z	23	33	04	
		i Z	23	33	11	
		e Z	23	33	38	
		i Z	23	34	26	
		i Z	23	36	01	
64.	12	iP Z	01	11	45	Compression
		i Z	01	11	53	
		i Z	01	12	02	
65.	12	iP Z	13	36	40	Rarefaction
		isP Z	13	36	53	
		i(PcP) Z	13	36	56	
		i Z	13	37	11	
		i Z	13	37	18	
66.	12	ip Z	20	49	02	Compression
67.	17	• E	11	27	46	
68.	21	eL E	11	32.3		
69.	22	i E	00	13	47	
		i E	00	15	32	
70.	27	i E	08	27	38	
		e E	08	28	40	

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Foundation: Jurassic dolerite

Instruments: (interim installation pending permanent base equipment). Sprengnether Series H horizontal pendulum EW, $6\frac{3}{4}$ secs. Willmore short period vertical seismometer recorded through DC amplifier on pen recorder. (31.5.58 only)

Limitations: This station is only in process of establishment. Inexperienced operators are in training. Chronometer at present only read to half second. Improved installation proposed.

(P)

No.	Date 1958	Phase	Time (G.M.T.)	Remarks
71.	May 1	iP E iPPP E i E iS E eL E	^h 00 ^m 35 ^s 43 [.] 00 37 04 00 38 12 00 40 54 00 47.1	$\Delta 32.6^{\circ}$ H 00 29 13
72.	1	i E e E	15 58 52 15 58 33	
73.	2	i E i E i E i E i E	01 55 44 01 56 26 01 57 00 01 57 49 01 59 09	
74.	12	i E i E	05 20 57 05 23 47	
75.	31	iP Z e EZ ipP Z isP Z i E i Z i E iS E eSS E eL E	19 39 10 19 39 13 19 39 18 19 39 26 19 39 29 19 39 48 19 40 03 19 44 29 19 46 37 19 48.7	-----Probably P waves with period 0.6 sec. superimposed on these. (Period 6 secs.) $\Delta 33.5^{\circ}$ H 19 32 33

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Foundation: Jurassic dolerite.

Instruments: (interim installation pending permanent base equipment). Sprengnether Series H horizontal pendulum EW, $6\frac{3}{4}$ secs. Willmore short period vertical seismometer recorded through DC amplifier on pen recorder. (Operating for only 12 hours each day).

Limitations: This station is only in process of establishment. Inexperienced operators are in training. Chronometer at present only read to half second. Improved installation proposed.

No.	Date 1958	Phase	Time (GMT)			Remarks
			h.	m.	s.	
76.	June 3	eP Z	19	38	27	Compression $\Delta 32^{\circ}.5$ H 19 31 58
		e(pP) Z	19	38	45	
		i Z	19	38	52	
		iPP Z	19	38	59	
		eS E	19	43	38	
		i(SSS) E	19	46	30	
		eL E	19	47.6		
77.	7	iP Z	12	57	46	Rarefaction $\Delta 13^{\circ}.5$ H 12 54 36
		iPP Z	12	57	53	
		iPPP Z	12	58	03	
		i Z	12	58	08	
		i Z	12	58	21	
		eS E	13	00	11	
		eL E	13	01.4		
78.	7	iP Z	18	34	55	Compression
		i Z	18	35	05	
		i Z	18	37	09	
79.	13	iP Z	10	42	33	Rarefaction
		i Z	10	42	41	
		i Z	10	42	44	
80.	15	iP Z	15	01	12	Compression
		i Z	15	01	20	
		i Z	15	01	35	
		i Z	15	02	43	
		i Z	15	02	52	

2.

No.	Date 1958	Phase		Time (GMT)			Remarks
81.	18	iP	Z	17	18	29	Compression
82.	19	iP	Z	13	36	27	Rarefaction
		i	Z	13	36	36	
		e	Z	13	36	41	
		i	Z	13	36	51	
83.	19	iP	Z	18	04	55	Compression $\Delta 13^{\circ} 4'$
		iPP	Z	18	05	05	H 18 01 45
		i(FPP)	Z	18	05	21	
		i	Z	18	05	37	
		eS	E	18	07	23	Partially masked by
		i(L)	E	18	08	28	microseisms
		i	E	18	08	50	
		i(PoP)	E	18	10	33	
		i	E	18	11	01	
84.	25	eP	Z	09	44	05	Rarefaction $\Delta 40^{\circ}$
		ipP	Z	09	44	12	H 09 36 32
		i	EZ	09	44	36	
		i	E	09	45	11	
		i	E	09	46	37	
		iS	E	09	50	08	
		eSS	E	09	52	40	
		eLq	E	09	55	58	
		eLr	E	09	59	39	

July, 1968.

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Foundation: Jurassic dolerite.

Instruments: (interim installation pending permanent base equipment).
Sprengnether Series H horizontal pendulum EW, $6\frac{3}{4}$ secs.
Willmore short period vertical seismometer recorded through
DC amplifier on pen recorder. (Operating only 8 hours
each day).

Limitations: This station is only in process of establishment.
Inexperienced operators are in training. Chronometer at present only
read to half second. Improved installation proposed.

No.	Date 1958	Phase	Time (GMT) h. m. s.	Remarks
85	July 8	e E i E	19 37 06 19 38 52	
86	10	i(PP) E i E i E i E i E i E	06 36 01 06 38 20 06 42 06 06 43 05 06 45 58 07 15 04	
87.	12	iP Z	15 39 45	Compression
88.	19	eP E iS E iSS E eL E	18 25 13 18 31 49 18 35 03 18 42.0	$\Delta 45^{\circ}$ H 18 16 59
89.	21	iL E	15 53.3	
90.	23	eP Z ipP Z i(PP) Z e(L) E	10 39 01 10 39 11 10 39 24 11 10.7	Compression
91.	26	e(P) E eS E iSSS E eL E	17 56 01 18 00 49 18 02 50 18 04.5	$\Delta 29^{\circ}$ H 17 50 05
92.	30	i E i E i E	05 05 37 05 06 14 05 06.7	Obscured by microseisms.

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8 hours each day).

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No.	Date	1958	Phase	Time (GMT)	Remarks
				h. m. s.	
93	August	3	eP Z	01 12 34	Compression
			i Z	01 12 55	
			e Z	01 13 00	
			i Z	01 13 09	
			iPcP Z	01 14 12	
94		4	iS E	04 26 36	
			iSS E	04 29 32	
			iL E	04 32.7	
95		6	eL E	21 29.7	
96		12	e E	20 43 17	Obscured by micro-seisms.
97		14	i E	23 01 34	
98		15	iP Z	02 34 08	Rarefaction
			i Z	02 34 15	
			i Z	02 34 26	
99		15	i Z	10 28 56	Compression
			e Z	10 29 03	
100		15	e E	22.8	Strong. Obscured by intense microseisms.
101		16	i Z	01 35 16	
102		16	iP Z	01 43 17	Rarefaction
103		25	e E	13 19 24	
104		29	i E	12 36 31	Compression.

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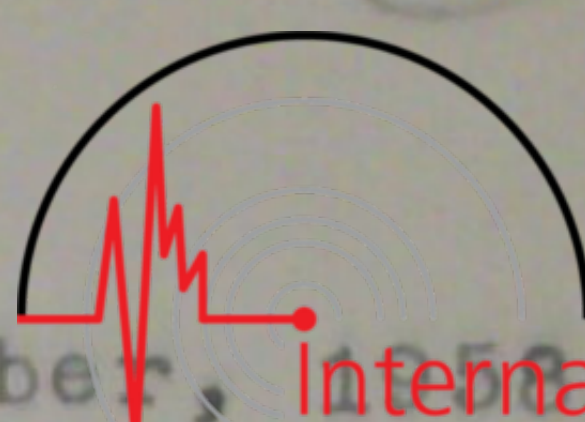
Instruments: (interim installation pending permanent base equipment).
Sprengnether Series H horizontal pendulum EW.
Willmore short period vertical.
Willmore short period vertical seismometer recorded through DC amplifier on pen recorder. (Willmores operating intermittently)

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No.	Date	1958	Phase	Time (GMT)			Remarks
				h.	m.	s.	
105	September	14	iP Z	19	22	13	Compression
106		15	iP Z	16	54	08	Rarefaction
			i Z	16	54	21	
			i Z	16	55	08	
107		15	iP EZ	19	53	57	Compression $\Delta 49^{\circ}.2$ H 19 45 52 h 0.07
			ipP Z	19	55	30	
			i Z	19	57	51	
			iS EZ	20	00	26	
			i(SoS) E	10	02	30	
			iSS E	20	04	08	
			i E	20	07	04	
			eL E	20	10.4		
108		18	iP Z	03	47	51	Rarefaction
			ipP Z	03	48	01	
			i Z	03	48	08	
109		20	iP Z	17	16	43	Rarefaction $\Delta 36^{\circ}.9$ H 17 09 36
			ipP Z	17	16	52	
			i Z	17	17	02	
			i Z	17	19	06	
			iS E	17	22	25	
			i E	17	26	19	
			iSoS E	17	26	44	
			iL E	17	27.6		

No.	Date 1958	Phase	Time (GMT)	Remarks
			h. m. s.	
110	September 22	iP EZ	19 11 46	Rarefaction
		i Z	19 12 25	$\Delta 30^{\circ}.9$ H 19 05 48
		iPP EZ	19 12 40	h 0.03
		iPPP EZ	19 13 19	
		i E	19 13 46	
		i(PcP) Z	19 14 59	
		i Z	19 15 12	
		iS E	19 16 32	
		iSS E	19 18 01	
		iSS E	19 18 53	
		i Z	19 18 59	
		iSSS E	19 19 29	
		oL E	19 22.4	
111	25	iP Z	05 39 46	Compression
112	25	iPKP Z	07 39 48	Compression
		iL E	08 34.5	
113	27	iP Z	14 02 55	Compression
		iPP Z	14 03 05	
		i Z	14 03 39	

58/10


 October, 1958
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Willmore short period vertical.
Willmore short period vertical seismometer recorded
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operating intermittently)

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				h. m. s.	
114	October	1	iP EZ	09 33 06	Compression $\Delta 14^{\circ}.7$
			iPP Z	09 33 20	H 09 29 39
			iPPP Z	09 33 30	
			i E	09 33 58	
			iS E	09 35 49	
			iSSS E	09 36 20	Max. E 09 37.9
115		2	i E	05 03 23	
			iL E	05 08.9	Max. E 05 09.8
116		7	iP Z	06 32 10	Rarefaction
			i Z	06 32 32	
117		7	iPP E	12 45 50	
			i E	12 47 40	
			e E	12 50 00	
			i(S) E	12 52 09	
			i E	12 55 08	
			iL E	13 03.5	Max. E 13 06.2
118		9	i E	11 54 00	
			iL E	12 01.0	Max. E 12 02.0
119		15	iP Z	11 01 59	Compression
120		17	iP Z	10 30 37	Rarefaction
			i Z	10 30 39	
			i Z	10 30 44	

No.	Date	1950	Phase		Time (GMT)	Remarks
121	October	19	iL	E	11 57.3	Max. E 11 59.3
122		20	i(S)	E	01 27 34	
			iSSS	E	01 31 08	
			iL	E	01 35.6	Max. E 01 41.4
123		26	i(L)	E	23 58 23	
124		28	i	E	07 14 35	
125		28	i	E	11 31 05	
126		29	iSKS	E	08 12 33	
			i	E	08 16 04	
127		31	iL	E	19 23.1	

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FORT NELSON SEISMOLOGICAL STATION.

Provisional Bulletin

Address: The Professor of Geology, University of Tasmania, Box 647c, Hobart, Tasmania.

Vault Location: Fort Nelson, latitude 42°55'35"S, longitude 147°21'10"E, altitude 209 m.

Foundation: Jurassic dolerite.

Instruments: (interim installation pending permanent base equipment). Sprengnether Series H horizontal pendulum EW, 15.3 sec. Willmore short period vertical, operating intermittently.

Limitations: This station is only in process of establishment. Inexperienced operators are in training. Chronometer at present only read to half second. Improved installation proposed.

No.	Date 1958		Phase		Time (GMT)			Remarks
					h.	m.	s.	
128	November	1	iS	E	03	52	16	
			eSS	E	03	55	04	
			iSSS	E	03	55	42	
			i(L)	E	03	59.7		Max. E 03 59.7
129		1	i	E	06	27	55	
130		1	eS	E	12	27	41	
			iSSS	E	12	30	01	
			e(L)	E	12	31.0		Max. E 12 34.7
131		1	i	E	16	03	23	
			iL	E	16	05.3		Max. E 16 08.0
132		6	eP	E	23	10	55	Δ 89° .0
			ipP	E	23	11	22	H 22 58 10
			iPPP	E	23	16	28	h 0.01
			eSKS	E	23	21	15	
			iS	E	23	50	06	
			iPS	E	23	22	51	
			i(SS)	E	23	27	10	
			iSSS	E	23	31	02	
			i	E	23	32	50	
			i	E	23	34	24	
			iL	E	23	39.6		Max. E 23 42.4
133		12	i	E	20	46	47	
			i	E	20	47	10	
			e	E	20	51	15	
			i	E	20	56	11	
			i	E	20	57	39	
			e	E	20	59.2		Max. E 20 09.4

No.	Date	1958	Phase	Time (GMT)	Remarks
				h. m. s.	
134	November	14	i E e E	14 04 49 14 09.3	Max. E 14 10.0
135		16	i(S) E eL E	17 59 32 18 06.3	Max. E 18.1
136		17	eP Z epP Z eS E e E	09 53 22 09 53 31 09 59 02 10 02 52	Compression $\Delta 36^{\circ}.6$ H 09 46 17 Max. E 10 08.1
137		19	eP Z	09 36 36	Compression
138		19	iP Z i Z	19 37 45 19 37 47	Rarefaction
139		20	iP Z e E	06 13 58 06 16 50	Compression
140		22	(e) Z eS E e(L) E	00 12 37 00 22 30 00 27.6	Compression Max. E 00 30.4
141		22	iP Z ipP Z eL E	02 04 45 02 04 54 02 17.9	Compression Max. E 02 19.8
142		27	iS E iL E	13 49 57 13 53.7	Max. E 13 56.0
143		28	i E	09 04 05	

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Vault Location: Fort Nelson, latitude $42^{\circ}55'35''\text{S}$, longitude $147^{\circ}21'10''\text{E}$, altitude 209 m.

Foundation: Jurassic dolerite.

Instruments: (interim installation pending permanent base equipment). Sprengnether Series H horizontal pendulum EW, 15.3 sec. Willmore vertical 1 sec. recording through DC amplifier and pen recorder, operating intermittently.

Limitations: This station is only in process of establishment. Inexperienced operators are in training. Chronometer at present only read to half second. Improved installation proposed.

No.	Date	1958	Phase	Time (GMT)	Remarks
144	December	10		h. m. s.	
			iP E	07 07 50	$\Delta 23^{\circ}.7$
			ipP E	07 08 41	H 07 03 02
			isP E	07 09 16	h 0.04
			iS E	07 11 42	
			isS E	07 13 09	
			eL E	07 14.4	Max. E 07 16.6
			iScS E	07 18 19	
145		18	eL E	19 45.1	Max. E 19 47.2
146		25	iP Z	08 12 51	Compression
			ipP Z	08 13 01	$\Delta 38^{\circ}.0$
			i Z	08 13 21	H 08 05 34
			iPcP Z	08 15 04	
			i Z	08 15 19	
			eS E	08 18 41	
			eSS E	08 21 33	
			eSSS E	08 22 03	
			iScS E	08 23 03	
			eL E	08 24.3	Max. E 08 28.9

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