


Historical Earthquakes within 100 miles of CBR site¹

Date	Time	Latitude	Longitude	Depth ² (km)	Magnitude	Approximate distance from CBR site	
						Miles	km
10/11/1895	23:55:00	43.9	-103.3	0	3.4	85	137
7/14/1920	23:00:00	43.2	-103.2	0	3.2	37	60
12/30/1924	22:10:00	43.5	-103.5	0	3.6	58	93
8/8/1933	0:00:00	41.9	-103.7	0	3.0	56	91
7/30/1934	7:20:00	42.7	-103	0	4.1	17	27
10/30/1936	10:30:00	43.5	-103.5	0	2.7	58	93
3/24/1938	13:11:00	42.7	-103.4	0	3.3	4.1	6.7
5/25/1941	6:25:00	43.5	-103.5	0	3.7	58	93
2/25/1942	14:15:00	42.5	-104.4	0	3.3	56	89
5/16/1943	19:40:00	43.5	-103.5	0	2.7	58	93
11/15/1952	0:00:00	44.1	-103.5	0	2.7	99	160
3/24/1964	6:12:00	43.5	-103.5	0	3.4	58	93
3/28/1964	3:00:00	42.7	-104.1	0	3.3	39	63
3/28/1964	10:08:47	43.0	-101.8	30	4.8	81	130
8/22/1964	3:28:11	42.9	-104.7	0	3.8	71	115
8/26/1964	16:58:55	43.77	-102.25	20	3.4	94	151
5/16/1975	5:57:01	43.2	-103.7	0	2.7	41	66
8/25/1975	10:00:35	42.57	-101.55	29	2.6	91	146
5/7/1978	16:06:23	42.26	-101.95	38	3.7	76	122
9/13/1981	22:16:30	43.04	-101.85	5.0	3.2	79	128

¹ Sources: NUREG-2115, Vol. 4, Appendix B (Earthquake Catalog) (1895 through 2008), USGS Advanced National Seismic System (ANSS) Catalog (2009 to present).

² Depth value of zero indicates that depth was not reported.

United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)	
	ASLBP #: 08-867-02-OLA-BD01
	Docket #: 04008943
	Exhibit #: NRC-066-00-BD01
	Admitted: 8/18/2015
	Rejected:
Other:	Identified: 8/18/2015 Withdrawn: Stricken:

Date	Time	Latitude	Longitude	Depth ² (km)	Magnitude	Approximate distance from CBR site	
						Miles	km
5/6/1983	6:14:47	42.955	-102.198	5.0	3.0	61	98
1/1/1987	8:02:24	42.788	-103.482	5.0	3.1	11	18
2/9/1989	5:15:46	42.685	-101.898	5.0	3.5	73	117
1/28/1990	4:59:59	43.313	-102.504	5.0	3.7	61	98
11/2/1992	6:54:10	42.74	-104.389	5.0	2.9	54	87
2/20/1993	13:08:10	42.83	-101.461	5.0	3.2	95	154
3/18/1994	22:51:43	43.4	-103.5	5.0	2.5	51	82
2/6/1996	16:08:37	43.981	-103.729	5.0	3.5	93	149
4/9/1996	2:48:08	43.069	-104.102	5.0	3.2	48	77
6/18/1998	16:26:38	42.622	-103.003	5.0	3.1	17	27
5/25/2003	7:32:33	43.087	-101.794	5.0	3.9	83	134
1/5/2004	2:53:17	43.598	-103.995	5.0	2.5	72	117
9/7/2006	6:23:20	42.977	-102.236	5.0	2.3	59	96
4/24/2007	9:35:01	42.58	-102.94	5.0	2.4	21	33
8/22/2008	23:01:32	43.075	-104.289	5.0	2.8	56	90
11/3/2008	13:14:12	42.83	-105.18	5.0	3.5	94	152
3/10/2011	1:38:14	42.861	-104.087	5.0	2.9	41	65
11/14/2011	6:51:38	43.043	-103.415	5.0	4.0	26	42
11/15/2011	9:31:46	43.05	-103.504	5.0	3.3	28	45
11/19/2011	8:28:04	42.911	-103.082	5.0	2.8	21	34
1/16/2012	13:41:10	43.487	-102.996	5.0	3.0	59	95
10/18/2012	5:21:11	42.212	-101.951	5.0	3.6	77	124
12/12/2013	9:43:20	43.818	-103.318	4.9	3.5	79	128

Number of Earthquakes of Different Magnitudes within 100 mi of CBR facility

