

SS-3 (Frost) # 10

Drilled: August 1973 by Longyear Co., Keewatin, Minnesota

Location: S1/4 corner 14 84 N3E - Jackson County, Iowa

Elevation: 725' (Hopkinton)

TD: 1161' (Prairie du Chien)

574 ft 45'

108

Boxes

110 boxes

Wnumber 27575
Cominco American Incorporated SS-3 (Frost)

X-Ray Diffraction Data

Sample	Depth	Dolomite (%)	Calcite (%)	Quartz (%)	K-spar (%)	Clay (%)	Apatite (%)	Pyrite (%)	Gypsum(%)
CS3-1	428.0	76		1	1	15	7		
CS3-2	427.8	82	1	2	1	6		8	
CS3-3	427.5	81		4	1	9	5		
CS3-4	427.2	88	1	3		6	3		
CS3-5	427.0	80		2		6	6	6	
CS3-6	426.8	67		1		4	4	24	
CS3-7	426.7	63		5	1	10	13		
CS3-8	426.6	4		3		7	61	25	
CS3-9	426.4	21		3	1	8	48	20	tr.
CS3-10	426.2	34		10	1	33	22		tr.
CS3-11	426.1	32		8	1	22	36		tr.
CS3-12	425.9	29		10	2	22	24	14	tr.
CS3-13	425.6	19		13	3	34	15	16	
CS3-14	425.3	14		17	3	49	4	15	
CS3-15	425.0	12		17	3	49	5	17	
CS3-16	424.5	16		17	3	43	7	16	tr.
CS3-17	423.7	7		18	3	51	6	16	
CS3-18	423.1	17		17	3	46	5	13	
CS3-19	422.6	14		18	3	49	6	11	
CS3-20	422.3	16		18	3	46	6	12	
CS3-21	422.0	13		17	3	44	7	16	
CS3-22	421.4	23		16	3	44	6	10	
CS3-23	420.7	18		18	3	46	5	10	
CS3-24	420.4	31		11	2	39	5	12	
CS3-25	419.9	47		7	2	29	4	11	
CS3-26	419.7	62		4	1	22	4	8	
CS3-27	419.7	55		4	1	24	5	11	
CS3-28	419.7	56		4	1	24	7	8	tr.
CS3-29	419.6	55		3	1	16	11	15	tr.
CS3-30	418.8	27		8	1	9	35	20	tr.
CS3-31	418.8	11		27	4	46	5	7	
CS3-32	418.6	7		26	4	50	4	9	
CS3-33	418.2	10		27	4	45	5	10	tr.
CS3-34	417.9	11		20	3	49	4	12	
CS3-35	417.6	16		20	3	44	3	14	
CS3-36	417.0	23		19	3	40	4	11	

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CS3-37	416.9	28		18	3	35	5	12	
CS3-38	416.5	23		18	3	41	6	10	
CS3-39	415.7	21		20	3	43	3	11	
CS3-40	415.0	17		20	3	44	3	14	
CS3-41	414.2	15		20	3	43	3	16	
CS3-42	413.4	6		25	4	45	5	15	
CS3-43	413.3	1		25	4	49	4	17	
CS3-44	413.0	4		20	3	50	14	9	
CS3-45	412.2	28		14	2	46		10	
CS3-46	412.0	44		14	1	34		7	
CS3-47	411.6	70		7	1	19		4	
CS3-48	411.2	34		13	2	42	2	6	
CS3-49	410.3	64		6	1	20	4	5	
CS3-50	409.5	51		9	1	26	4	8	
CS3-51	409.0	57		9	1	27		6	
CS3-52	408.5	55		9	1	27		8	
CS3-53	408.0	64		7	1	23		5	
CS3-54	407.8	74		4	1	12	5	3	
CS3-55	407.4	48		12	2	31		9	
CS3-56	407.1	64		9	1	20		6	
CS3-57	406.8	67		5	1	12		5	
CS3-58	406.5	62		23	1	11	1	3	
CS3-59	406.0	75		5	1	11	4	5	
CS3-60	404.8	44		14	3	19	5	16	
CS3-61	404.1	43		10	2	32		13	
CS3-62	403.7	60		9	1	26		5	

Data collected by Nancy R. Black for her MS Thesis

Black, N.R. (1985). "Petrography and Diagenesis of the Galena (Middle Ordovician) - Maquoketa (Late Ordovician) Contact and the Basal Maquoketa Phosphorites in Eastern Missouri and Eastern Iowa, USA". MS Thesis. University of Illinois at Urbana-Champaign.

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Chemistry Data

Sample	Depth	Calcium (ppm)	Strontium (ppm)	Iron (ppm)	Magnesium (ppm)	Phosphorous (ppm)
CS3-1	428.0					
CS3-2	427.8	197,000	61	16,000	117,000	900
CS3-3	427.5					
CS3-4	427.2	188,000	94	8,000	115,000	2,000
CS3-5	427.0					
CS3-6	426.8					
CS3-7	426.7	230,000	369	15,000	73,000	52,000
CS3-8	426.6	192,000	333	40,000	49,000	67,000
CS3-9	426.4					
CS3-10	426.2					
CS3-11	426.1					
CS3-12	425.9	204,000	693	22,000	35,000	87,000
CS3-13	425.6	92,000	166	24,000	37,000	14,000
CS3-14	425.3					
CS3-15	425.0					
CS3-16	424.5					
CS3-17	423.7					
CS3-18	423.1					
CS3-19	422.6					
CS3-20	422.3	62,000	134	32,000	32,000	5,000
CS3-21	422.0					
CS3-22	421.4					
CS3-23	420.7					
CS3-24	420.4					
CS3-25	419.9	126,000	78	18,000	51,000	1,000
CS3-26	419.?					
CS3-27	419.?					
CS3-28	419.?					
CS3-29	419.6	183,000	225	26,000	84,000	23,000
CS3-30	418.8	190,000	389	56,000	48,000	61,000
CS3-31	418.8	60,000	66	17,000	33,000	1,000
CS3-32	418.6					
CS3-33	418.2					
CS3-34	417.9					
CS3-35	417.6					
CS3-36	417.0	70,000	87	24,000	38,000	2,000

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CS3-37	416.9					
CS3-38	416.5					
CS3-39	415.7					
CS3-40	415.0					
CS3-41	414.2					
CS3-42	413.4					
CS3-43	413.3					
CS3-44	413.0	84,000	169	24,000	15,000	30,000
CS3-45	412.2					
CS3-46	412.0	125,000	80	23,000	72,000	700
CS3-47	411.6					
CS3-48	411.2					
CS3-49	410.3					
CS3-50	409.5					
CS3-51	409.0	148,000	91	20,000	86,000	500
CS3-52	408.5					
CS3-53	408.0					
CS3-54	407.8					
CS3-55	407.4	143,000	89	23,000	81,000	1,000
CS3-56	407.1					
CS3-57	406.8					
CS3-58	406.5					
CS3-59	406.0					
CS3-60	404.8					
CS3-61	404.1	126,000	97	22,000	71,000	1,000
CS3-62	403.7					

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