

Hole; No. 101

Description: Churn

Location: Crystal

Elevation: 396.6

Period: October 24, 1942 to October 24, 1942

From	To	Report
0	8	Surface (water)
8	22	Mud and gravel
22	27	Sandstone
27	30	Sandstone (water)
30	32½	Sandstone (show spar)
32½	35	Sandstone and spar
35	37	Sandstone, limestone and spar
37	39	Limestone, shale and spar (sand caving) Most of the spar in run 37-39 probably cavings.
39	43	Limestone (spar and sandstone cavings)

Hole: No. 102

Description: Churn

Location: Crystal

Elevation: 396.8

Period:

From	To	Report
0	5	Surface
5	21	Mud, gravel and sandstone (solid at 20')
21	32½	Sandstone (water 27-32½')
32½	35	Sandstone, limestone and spar (Limestone contact at 33')
35	37½	Limestone and spar, trace zinc
37½	40	Shale (lime and spar cavings)

Hole: No. 103

Description: Churn

Location: Crystal

Elevation: 397.6

Period: October 29, 1942 to December 3, 1942

From	To	Report
0	5	Surface.
5	25	Mud and gravel (water)
25	30	Sandstone (very soft)
30	35	Sandstone and mud
35	37 $\frac{1}{2}$	Gravel and mud (water)
37 $\frac{1}{2}$	42 $\frac{1}{2}$	Sandstone and spar (37 $\frac{1}{2}$ to 43 very soft and caved badly) <i>Bested</i>
42 $\frac{1}{2}$	45	Sandstone, limestone and spar (limestone contact at 43') (Opening at 43 $\frac{1}{2}$ ') <i>Bested</i>
45	55	Opening and mud (sand and spar cavings)
55	60	Limestone (no sample)
60	65	Limestone (sandstone and spar cavings)
65	70	Limestone and shale (cavings)
70	80	Shale (sand and spar cavings)
80	90	Shale and limestone
90	120	Limestone } 80'-120' sand and spar cavings
120	125	Limestone and sandstone
125	155	Sandstone
155	160	Sandstone, limestone and show spar (lime contact 158')
160	162 $\frac{1}{2}$	Limestone with trace spar
162 $\frac{1}{2}$	165	Limestone
165	170	Limestone with faint trace lead
170	200	Limestone
200	205	Limestone, sandstone, spar and zinc
205	207	Limestone, sandstone, spar and zinc and show of lead <i>sub-? Ore?</i>
207	210	Limestone, show spar and zinc, probably cavings
210	215	Limestone (spar and zinc cavings)

Hole: No. 104

Description: Churn

Location: Crystal

Elevation: 594.7

Period: October 29, 1942 to November 5, 1942

From	To	Report
0	12	surface
12	80	Sandstone
80	85	Sandstone and limestone at 84'
85	90	Limestone
90	95	Limestone, mud and shale
95	100	Limestone
100	105	Limestone (break of mud at 104')
105	110	Mud and limestone shells. (One foot opening at 109')
110	120	Mud and gravel
120	125	Mud and gravel and shale
125	170	Limestone
170	180	Sandy limestone
180	200	Rosiclare sandstone
200	273	Limestone (opening 263-263½)



Hole: No. 106

Description: Churn

Location: Crystal

Elevation: 574.7

Period: November 13, 1942 to November 19, 1942

From	To	Report
0	15	Surface
15	95	Sandstone
95	100	Sandstone and limestone (contact at 96')
100	105	Limestone
105	110	(Opening 104'-105' and lost sample)
110	115	Limestone and shale
115	120	Limestone shells and gravel
120	125	Mud and gravel
125	130	Shale
130	135	Shale and limestone
135	170	Limestone
175	180	Sandy limestone
180	215	Rosiclare Sandstone (top 180' - base 214') (Opening 214'-215)
215	222½	Good show spar
222½	230	Limestone
230	235	Limestone - good show spar 232½ - 235
235	237½	Good show spar
237½	242½	Limestone, calc and show of spar
242½	245	Limestone, good spar show
245	250	Sandstone
250	280	Limestone
280	285	Limestone and Sub Rosiclare sandstone

Hole: No. 107

Description: Churn

Location: Crystal

Elevation: 569.0

Period: November 20, 1942 to November 30, 1942

From	To	Report
0	10	Surface
10	30	Sandstone and shale
30	95	Sandstone
95	100	Sandstone and limestone (contact at 96')
100	110	Limestone (opening 103-105')
110	120	Opening - lost sample
120	130	Opening and crevices, clay and mud
130	140	shale
140	145	Shale and limestone
145	175	Limestone
175	180	Sandy limestone
180	185	Rosiclare sandstone
185	190	Opening - lost sample (185 - 188')
190	195	Broken mud, sandstone and show of spar
195	215	Rosiclare sandstone
215	217 $\frac{1}{2}$	Opening - no sample (base Rosiclare at 216')
217 $\frac{1}{2}$	220	Crevices - no sample
220	222 $\frac{1}{2}$	Sandstone, limestone and spar
222 $\frac{1}{2}$	230	Good spar
230	232 $\frac{1}{2}$	Calc, limestone and spar
232 $\frac{1}{2}$	235	Limestone and shale
235	265	Limestone
265	275	Sandstone, spar and lead shines
275	277 $\frac{1}{2}$	Sandstone and lead shines
277 $\frac{1}{2}$	280	Limestone
280	290	Limestone and sandstone

Hole: No. 108

Description: Churn

Location: Crystal

Elevation: 532.7

Period: December 3, 1942 to December 12, 1942

From	To	Report
0	8	Surface
8	12	Sandstone
12	24	Paint Creek
24	105	Sandstone
105	110	Sandstone and limestone (contact at 107')
110	125	Limestone
125	130	Limestone and shale
130	135	Shale
135	140	Red rock
140	150	Shale
150	180	Limestone
180	190	Sandy limestone
190	195	Sandstone and limestone (Rosiclare at 194')
195	225	Rosiclare sandstone (base at 225')
225	227½	Opening (water at 225')
227½	235	Sandstone - good show spar
235	237½	Limestone - good show spar
237½	280	Limestone
280	285	Limestone, sandstone, spar and zinc shines
285	287½	Limestone, light spar and zinc and lead shines
287½	290	Limestone
290	300	Limestone and sandstone
300	305	Limestone

Hole: No. 109

Description: Churn

Location: Crystal

Elevation: 574.5

Period: December 11, 1942 to January 5, 1943

From	To	Report
0	10	Surface
10	85	Sandstone
85	90	Sandstone and limestone (contact at 89')
90	105	Limestone
105	110	Limestone (open 109-110' - lost sample)
110	120	Mud and gravel
120	125	Opening shale and mud
125	130	Shale and mud
130	135	Shale
135	170	Limestone
170	180	Sandy limestone
180	210	Rosiclare Sandstone
210	215	Rosiclare Sandstone and Limestone
215	243	Limestone

Hole: No. 110

Description: Churn

Location: Crystal

Elevation: 402.4

Period: December 15, 1942 to December 31, 1942

From	To	Report
0	25	Surface
25	30	Sandstone and shale
30	50	Sandstone (water at 50')
50	55	Sandstone and mud
55	65	Mud
65	75	Limestone, mud and sandstone cavings (Pipe set to 79')
75	80	Limestone and mud
80	105	Shale
105	115	Mud and shale
115	135	Limestone and cavings
135	145	Limestone and sandstone
145	160	Sandy
160	210	Limestone (cavings 205-210')
210	217½	Good show lead and zinc
217½	230	Limestone

Hole: No. 111

Description: Churn

Location: Crystal

Elevation: 518.6

Period: December 15, 1942 to December 31, 1942

From	To	Report
0	16	Surface
16	85	Sandstone
85	90	Sandstone and limestone (contact at 87 $\frac{1}{2}$ )
90	115	Limestone
115	120	Limestone and shale
120	135	Shale
135	140	Shale and limestone
140	170	Limestone
170	175	Limestone and Rosiclare Sandstone (contact at 174')
175	207 $\frac{1}{2}$	Rosiclare sandstone (water at 207 $\frac{1}{2}$ )
207 $\frac{1}{2}$	210	Sandstone and spar (ore from 208 $\frac{1}{2}$ )
210	215	Limestone and spar
215	220	Limestone and spar (probably cavings)
220	235	Limestone and spar
235	237 $\frac{1}{2}$	Limestone (spar cavings)
237 $\frac{1}{2}$	242 $\frac{1}{2}$	Limestone
242 $\frac{1}{2}$	250	Limestone, lead, zinc and spar
250	275	Limestone, lead, zinc and spar (ore likely caving)
275	300	Limestone

Hole: No. 112

Description: Churn

Location: Crystal

Elevation: 420.4

Period: January 2, 1943 to January 5, 1943

From	To	Report
0	30	Surface
30	55	Sandstone
55	60	Mud (set pipe at 60')
60	95	Sandstone (water at 75 - 80')
95	105	Sandstone and good spar show
105	110	Mud cave

Remarks: Set 88' of 5 3/16" pipe

Hole: No. 113

Description: Churn

Location: Crystal

Elevation: 525.5

Period: January 6, 1943 to January 14, 1943

From	To	Report
0	30	Soil and sandstone
30	55	Shale and sandstone
55	115	Sandstone
115	135	Limestone
135	140	Limestone and shale
140	155	Shale
155	160	Shale and limestone
160	205	Limestone
205	232 $\frac{1}{2}$	Rosiclare sandstone (contact at 206')
232 $\frac{1}{2}$	235	Rosiclare sandstone and limestone with traces spar (small opening 232-233 with water)
235	243	Limestone and calc (base of Rosiclare at 233')
243	245	Good show spar
245	247 $\frac{1}{2}$	Extra good show spar
247 $\frac{1}{2}$	250	Limestone, light show spar, zinc and lead shines
250	252 $\frac{1}{2}$	Limestone and spar with zinc and lead shines
252 $\frac{1}{2}$	255	Limestone, good show spar, shines of lead and zinc
255	260	Limestone
260	265	Limestone, traces spar, zinc and lead
265	280	Limestone
280	285	Limestone and calc, show spar, lead and zinc
285	290	Limestone, light lead and zinc shines
290	295	Sub Rosiclare sandstone
295	300	Sub Rosiclare sandstone and limestone
300	301	Limestone

Hole: No. 114

Description: Churn

Location: Crystal

Elevation: 499.7

Period: January 16, 1943 to January 26, 1943

From	To	Report
0	2	Surface
2	30	Sandstone
30	45	Paint Creek shale
45	70	Sandstone
70	80	Sandstone and shale
80	115	Sandstone
115	120	Sandstone and limestone (contact at 118')
120	145	Limestone
145	155	Limestone and shale (little water 150-155')
155	160	Shale
160	165	Shale and limestone
165	210	Limestone
210	240	Rosiclare sandstone
240	300	Limestone
300	305	Limestone and sandstone
305	320	Limestone

Hole: No. 115

Description: Churn

Location: Crystal

Elevation: 493.5

Period: January 28, 1943 to February 8, 1943

From	To	Report
0	2	Surface
2	20	Sandstone
20	30	Paint Creek shale
30	115	Sandstone
115	135	Limestone (contact at 115')
135	140	Limestone and shale
140	145	Limestone and shale (Red Rock)
145	160	Shale
160	165	Shale and limestone
165	200	Limestone
200	205	Limestone and sandstone (contact at 205')
205	230	Rosiclare Sandstone
230	235	Rosiclare Sandstone (calc)
235	237 $\frac{1}{2}$	Rosiclare Sandstone (water) traces spar
237 $\frac{1}{2}$	240	Rosiclare Sandstone and limestone, light show spar
240	245	Rosiclare sandstone and limestone, good show spar
245	250	Limestone - traces spar
250	260	Limestone (lost almost all of sample) Heavy water 250-255'
260	280	Limestone
280	285	Limestone (good show zinc)
285	290	Limestone - light zinc shines
290	295	Limestone
295	300	Sub Rosiclare sandstone
300	310	Limestone (oolitic)

Hole: No. 116

Description: Churn

Location: Crystal

Elevation: 493.1

Period: February 9, 1943 to February 20, 1943

From	To	Report
0	20	Surface
20	25	Sandstone
25	35	Paint Creek Shale
35	40	Shale and Sandstone
40	115	Sandstone (crack at 105')
115	120	Sandstone and limestone (contact at 117')
120	135	Limestone
135	150	Limestone and shale
150	160	Shale
160	195	Limestone
195	210	Limestone (sandy)
210	215	Limestone and Rosiclare sandstone (contact at 212')
215	235	Rosiclare sandstone
235	300	Limestone (sandy at 280-285)

Hole: No. 117

Description: Churn

Location: Crystal

Elevation: 507.4

Period: February 23, 1943 to March 6, 1943

From	To	Report
0	6	Surface
6	30	Sandstone (opening 21-23')
30	40	Paint Creek Shale
40	45	Shale and Sandstone
45	125	Sandstone
125	145	Limestone
145	150	Limestone and shale
150	160	Shale
160	165	Shale and limestone
165	215	Limestone (sandy 210-215')
215	240	Rosiclare Sandstone (contact at 216')
240	245	Rosiclare Sandstone and limestone (contact at 242')
245	302	Limestone (sandy 285-290')

Hole: No. 118

Description: Churn

Location: Crystal

Elevation: 528.1

Period: May 9, 1943 to May 16, 1943

From	To	Report
0	6	Surface
6	75	Sandstone
75	80	Sandstone and limestone (contact at 77')
80	95	Limestone
95	100	Limestone and shale
100	115	Shale
115	120	Shale and limestone
120	165	Limestone (sandy 155 - 160')
165	170	Limestone and Rosiclare sandstone (contact at 168')
170	190	Rosiclare Sandstone
190	195	Rosiclare sandstone and limestone (contact at 192')
195	225	Limestone (broken 220-225')
225	233	Limestone, sandstone, mud and good show spar (opening 226-227')
233	237 $\frac{1}{2}$	Limestone, sandstone, calc and good show spar
237 $\frac{1}{2}$	240	Limestone with light show spar
240	255	Limestone (sandy 250' - 255')
255	260	Sub Rosiclare sandstone
260	265	Sub Rosiclare sandstone and limestone

Hole: No. 119

Description: Churn

Location: Crystal - Lackey

Elevation: 546.5

Period: March 25, 1943 to April 5, 1943

From	To	Report
0	12	Surface
12	85	Sandstone
85	105	Limestone (contact at 85')
105	110	Limestone and shale
110	120	Shale
120	125	Shale and limestone
125	175	Limestone (sandy 165' - 175')
175	195	Rosiclare sandstone
195	200	Rosiclare sandstone and limestone (contact at 198')
200	270	Limestone (sandy 245' - 250')

Hole: No. 120

Description: Churn

Location: Crystal

Elevation: 570.1

Period: April 1, 1943 to April 14, 1943

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From	To	Report
0	12	Surface
12	20	Sandstone (weathered)
20	80	Sandstone
80	85	Sandstone and limestone (contact at 82')
85	95	Limestone
95	100	Limestone and shale
100	105	Limestone
105	110	Limestone and shale
110	125	Shale
125	135	Shale and limestone
135	170	Limestone
170	175	Limestone and Rosiclare sandstone (contact at 171')
175	195	Rosiclare sandstone
195	200	Rosiclare sandstone and limestone (contact at 197')
200	270	Limestone (sandy 260-270')

Hole: No. 121

Description: Churn

Location: Crystal

Elevation: 548.3

Period: April 6, 1943 to April 17, 1943

From	To	Report
0	12	Surface
12	80	Sandstone
80	85	Sandstone and limestone
85	105	Limestone
105	110	Limestone and shale
110	125	Shale
125	145	Shale and limestone
145	170	Limestone
170	175	Limestone and Rosiclare sandstone (contact at 174')
175	200	Rosiclare sandstone
200	250	Limestone
250	255	Limestone and weathered green shale and sandstone
255	265	Limestone
265	270	Limestone and sandstone

Hole: No. 122

Description: Churn

Location: Crystal

Elevation: 574.9

Period: April 17, 1943 to April 29, 1943

From	To	Report
0	12	Surface
12	90	Sandstone (water course at 57')
90	95	Sandstone and limestone (contact at 91')
95	110	Limestone
110	115	Limestone and shale
115	130	Shale
130	140	Shale and limestone
140	175	Limestone (oolitic 155-160')
175	180	Limestone and Rosiclare sandstone
180	210	Rosiclare sandstone
210	215	Rosiclare sandstone and limestone
215	220	Limestone
220	225	Limestone and spar (crack at 271') (6" of spar at 221')
225	230	Limestone
230	240	Limestone and spar (low at 237½ - 240')
240	260	Limestone
260	265	Limestone, spar and Sub Rosiclare sandstone (260½-263' soft)
265	270	Sub Rosiclare sandstone
270	275	Sub Rosiclare sandstone with shales of spar
275	281	Sub Rosiclare Sandstone
281	287	Spar and sandstone
287	293	Sandstone and spar (spar likely cavings)
293	300	Limestone (crack at 297')

Hole: No. 123

Description: Churn

Location: Crystal

Elevation: 544.9

Period: April 19, 1943 to April 28, 1943

From	To	Report
0	12	Surface
12	85	Sandstone
85	90	Sandstone and limestone (contact at 88')
90	110	Limestone
110	120	Limestone and shale
120	130	Shale
130	135	Shale and limestone
135	175	Limestone
175	180	Limestone and Rosiclare sandstone
180	205	Rosiclare sandstone
205	255	Limestone
255	260	Limestone and spar (2' of ore)
260	262 $\frac{1}{2}$	Limestone and spar (water)
262 $\frac{1}{2}$	265	Limestone and spar
265	267 $\frac{1}{2}$	Limestone and spar (bottom of ore 266') (spar mostly cavings)
267 $\frac{1}{2}$	270	Sandstone and spar cavings
270	272 $\frac{1}{2}$	Sandstone and trace of zinc (spar cavings)
272 $\frac{1}{2}$	275	Limestone and trace of zinc (spar cavings)

Hole: No. 124

Description: Churn

Location: Crystal

Elevation: 553.3

Period: April 29, 1943 to May 7, 1943

From	To	Report
0	11	Surface
11	90	Sandstone (water at 45 - 50')
90	95	Sandstone and limestone (contact at 91')
95	110	Limestone
110	120	Limestone and shale
120	130	Shale
130	135	Shale and limestone
135	180	Limestone
180	185	Limestone and Rosiclare sandstone
185	205	Rosiclare sandstone
205	210	Rosiclare sandstone and limestone (contact at 209')
210	211½	Opening (sample lost but mud on bit had show of spar)
211½	215	Limestone
215	217½	Weathered limestone and spar
217½	270	Limestone
270	275	Limestone and sandstone

Hole: No. 125

Description: Churn

Location: Crystal

Elevation: 573.4

Period: May 1, 1943 to May 10, 1943

From	To	Report
0	17	Surface
17	85	Sandstone
85	90	Sandstone and limestone (contact at 89')
90	110	Limestone
110	120	Red Rock and chocolate shale
120	135	Shale and limestone
135	175	Limestone
175	180	Limestone and sandstone
180	210	Sandstone
210	225	Spar
225	227½	Spar (not so good)
227½	230	Spar (sandy)
230	255	Limestone
255	265	Limestone (trace of lead)
265	270	Limestone (sandy) traces lead and zinc
270	275	Limestone (sandy) lead and zinc
275	280	Limestone (sandy) lead and zinc
280	285	White limestone and zinc
285	295	White limestone

Hole: No. 126

Description: Churn

Location: Crystal

Elevation: 559.0

Period: May 7, 1943 to May 14, 1943

From	To	Report
0	11	Surface
11	90	Sandstone
90	92 $\frac{1}{2}$	Sandstone and limestone (contact at 92')
92 $\frac{1}{2}$	110	Limestone (opening 102-103')
110	120	Limestone and shale
120	130	Shale
130	140	shale and limestone
140	180	Limestone (water 140-150')
180	185	Limestone and Rosiclare sandstone
185	205	Rosiclare sandstone
205	270	Limestone
270	275	Limestone and sandstone

Hole: No. 127

Description: Churn

Location: Austin

Elevation: 568.4

Period: May 12, 1943 to May 19, 1943

From	To	Report
0	10	Surface
10	95	Sandstone
95	100	Sandstone and limestone (contact at 97')
100	115	Limestone
115	120	Limestone and shale
120	135	Shale
135	180	Limestone
180	185	Limestone and sandstone (contact at 185')
185	210	Rosiclare sandstone
210	260	Limestone
260	270	Limestone and sandstone
270	280	Limestone

Hole: No. 128

Description: Churn

Location: Crystal

Elevation: 551.6

Period: May 15, 1943 to May 22, 1943

From	To	Report
0	12	Surface
12	95	Sandstone (water at 60-65') (Crack and red mud at 80-90') (Lost sample in opening at 95')
95	97	Opening
97	120	Limestone (contact at 97')
120	130	Limestone and shale
130	140	Shale
140	145	Shale and limestone
145	175	Limestone
175	195	Limestone and sandstone
195	210	Rosiclare sandstone
210	215	Rosiclare sandstone and limestone (contact at 213')
215	235	Limestone
235	240	Limestone, white mud and show of spar
240	242 $\frac{1}{2}$	Limestone and show spar
242 $\frac{1}{2}$	245	Limestone and trace spar
245	288	Limestone (sandy 270-285')

Hole: No. 129

Description: Churn

Location: Crystal - Austin

Elevation: 570.5

Period: May 20, 1943 to May 27, 1943

From	To	Report
0	20	Surface
20	30	Gravel and sandstone
30	95	Sandstone
95	100	Lost sample (opening 98-101') Lime contact 98'
100	120	Limestone (no recovery 105-110' -- opening 109-110')
120	125	Limestone and shale
125	140	Shale
140	145	Shale and limestone
145	180	Limestone (shale break 170-175' -- shale cavings 175-180')
180	185	Limestone and Rosiclare sandstone (contact at 184')
185	210	Rosiclare sandstone
210	215	Rosiclare sandstone and limestone (contact at 214')
215	285	Limestone

Hole: No. 130

Description: Churn

Location: Crystal

Elevation: 576.3

Period: May 24, 1943 to June 3, 1943

From	To	Report
0	14	Surface
14	90	Sandstone (water at 14-25')
90	95	Sandstone and limestone (contact at 93')
95	100	Limestone
100	103	Lost sample
103	128	Opening
128	134	Mud and water
134	136	Mud and shale
136	180	Limestone
180	185	Limestone and sandstone
185	205	Sandstone
205	210	Sandstone and limestone (contact at 208')
210	265	Limestone
265	275	Sandy limestone
275	280	Sandstone
280	282	Sandstone and limestone

Hole: No. 131

Description: Churn

Location: Crystal

Elevation: 449.1

Period: June 1, 1943 to June 8, 1943

From	To	Report
0	15	Sandy soil
15	50	Sandstone
50	60	Sandy shale
60	90	Sandstone
90	95	Sandstone, limestone and spar
95	100	Shale and spar
100	105	Shale
105	130	Limestone and mud
130	160	Limestone
160	165	Sandy limestone
165	195	Rosiclare sandstone (little water 190-195')
195	200	Rosiclare sandstone and limestone (contact at 197')
200	202 $\frac{1}{2}$	Limestone with little lead, zinc and spar
202 $\frac{1}{2}$	250	Limestone
250	260	Sandy limestone
260	275	Limestone (white 270-275)

Hole: No. 132

Description: Churn

Location: Crystal - Austin

Elevation: 511.2

Period: June 3, 1943 to June 24, 1943

From	To	Report
0	3	Surface
3	15	Sandstone
15	30	Paint Creek Shale
30	60	Sandstone
60	70	Sandstone and shale
70	115	Sandstone
115	120	Sandstone and limestone (contact at 117')
120	135	Limestone
135	140	Limestone and shale
140	155	Shale
155	160	Shale and limestone
160	165	Limestone
165	170	Limestone and shale
170	205	Limestone
205	210	Limestone and Rosiclare sandstone (contact at 207')
210	232 $\frac{1}{2}$	Rosiclare sandstone
232 $\frac{1}{2}$	295	Limestone
295	300	Limestone and Sub Rosiclare sandstone
300	305	Limestone (white)

Hole: No. 133

Description: Churn

Location: Crystal

Elevation: 575.8

Period: June 4, 1943 to June 11, 1943

From	To	Report
0	16	Surface
16	100	Sandstone
100	105	Sandstone and limestone (contact at 102') <i>Beth</i>
105	130	Limestone <i>Ren</i>
130	140	Limestone and shale
140	150	Shale
150	170	Limestone (lost sample in opening)
170	172	Opening, water
172	175	Limestone
175	180	Limestone, sandstone, quartz, spar and show zinc
180	185	Sandstone, quartz, spar and show zinc
185	190	Sandstone, spar and show zinc
190	200	Sandstone, spar and show lead
200	205	Sandstone, quartz, spar and show lead
205	225	Sandstone, spar and show lead
225	230	Sandstone and spar
230	232½	Sandstone, opening 231-232½ with water
232½	235	Sandstone, quartz and spar
235	240	Sandstone, and spar
240	242½	Sandstone, limestone and spar (limestone contact at 241')
1½-4 242½	245	Limestone and spar
245	250	Limestone and show spar
250	255	Limestone and show spar (small opening 251')
255	260	Limestone, quartz, show spar and zinc
260	265	Limestone and zinc
265	270	Limestone and show zinc
270	275	Limestone
275	279	Limestone and sandstone

Hole: No. 134

Description: Churn

Location: Crystal

Elevation: 459.0

Period: June 11, 1943 to June 20, 1943

From	To	Report
0	90	Sandstone
90	95	Sandstone and limestone (traces spar) contact at 94'
95	120	Limestone (water at 95-100')
120	140	Limestone and shale
140	145	Limestone
145	150	Mud and shale crack
150	155	Opening
155	180	Limestone
180	185	Sandy limestone
185	210	Sandstone
210	290	Limestone

Hole: No. 135

Description: Churn

Location: Crystal

Elevation: 574.9

Period: June 12, 1943 to June 21, 1943

From	To	Report
0	14	Surface
14	100	Sandstone (water at 50-55') <i>Beth</i>
100	120	Limestone
120	135	Limestone and shale
135	145	Shale
145	150	Shale and limestone
150	185	Limestone
185	190	Limestone with faint trace spar
190	195	Limestone, sandstone, faint trace spar (contact at 194')
195	210	Sandstone (show spar) <i>Ros</i>
210	220	Sandstone (show spar and trace lead)(water 215-220')
220	225	Sandstone, limestone, spar and trace of lead (limestone at 222)
225	240	Limestone <i>Fred</i>
240	245	Limestone and calc with show spar
245	275	Limestone
275	280	Limestone and sandstone
280	285	Sandstone and limestone

Hole: No. 136

Description: Churn

Location: Crystal

Elevation: 570.3

Period: June 22 to July 1, 1943

From	To	Report
0	10	Surface
10	95	Sandstone
95	100	Sandstone and limestone (contact at 99')
100	120	Limestone (crack at 101')
120	125	Limestone and shale
125	135	Shale
135	140	Shale and limestone
140	185	Limestone
185	190	Limestone and sandstone
190	215	Rosiclare sandstone
215	220	Rosiclare sandstone and limestone (contact at 116')
220	275	Limestone
275	280	Limestone and sandstone
280	285	Sandstone and limestone

Hole: No. 137

Description: Churn

Location: Crystal

Elevation: 471.2

Period: June 26, 1943 to July 9, 1943

From	To	Report
0	4	Surface
4	15	Paint Creek shale
15	45	Sandstone
45	55	Sandstone and shale
55	95	Sandstone (water 55-60')
95	100	Sandstone and limestone (contact at 98')
100	120	Limestone (crack 108-109')
120	125	Limestone and shale
125	130	Shale
130	135	Shale and limestone
135	140	Shale
140	185	Limestone (sandy 180-185')
185	190	Limestone and Rosiclare sandstone (contact at 186')
190	205	Rosiclare sandstone
205	210	Rosiclare sandstone and limestone
210	265	Limestone
265	275	Limestone (sandy)
275	280	Limestone
280	283	Limestone (white)

Hole: No. 138

Description: Churn

Location: Crystal

Elevation: 578.9

Period: July 2, 1943 to July 10, 1943

From	To	Report
0	18	Surface
18	100	Sandstone
100	105	Sandstone and limestone (contact at 104')
105	135	Limestone
135	140	Limestone and shale
140	150	Shale
150	155	Shale and limestone
155	160	Limestone
160	165	Limestone and shale with trace of spar
165	170	Limestone and trace spar, faint trace zinc
170	185	Limestone and trace spar
185	190	Limestone, sandstone and trace of spar
190	195	Sandstone and show spar
195	200	Sandstone and show spar, trace lead
200	220	Sandstone and trace of spar
220	222 $\frac{1}{2}$	Sandstone and show of spar
222 $\frac{1}{2}$	225	Sandstone, limestone and show spar (limestone at 223')
225	240	Limestone with trace spar
240	260	Limestone with spar cavings
260	275	Limestone with trace zinc (spar cavings)
275	280	Limestone (spar cavings)
280	285	Sandstone
285	290	Limestone

Hole: No. 139

Description: Churn

Location: Crystal

Elevation: 397.3

Period: July 7, 1943 to July 13, 1943

From	To	Report
0	20	Sandstone and gravel
20	34	Sandstone (water 25-30')
34	42	Ore
42	50	Limestone
50	75	Shale
75	115	Limestone (sandy 90-115')
115	145	Sandstone
145	150	Sandstone and limestone
150	215	Limestone
215	220	Limestone and Sub Rosiclare sandstone
220	230	Limestone

Hole: No. 140

Description: Churn

Location: Crystal

Elevation: 473.3

Period: July 12, 1943 to July 23, 1943

From	To	Report
0	4	Surface
4	7	Sandstone
7	14	Paint Creek shale
14	50	Sandstone
50	60	Sandstone and shale
65	100	Sandstone (water 95-100')
100	115	Limestone
115	125	Limestone and shale
125	135	Shale
135	140	Shale and Limestone
140	185	Limestone (sandy 180-185')
185	190	Limestone and sandstone (contact at 187')
190	210	Rosiclare sandstone
210	215	Rosiclare sandstone and limestone (contact at 214')
215	220	Limestone
220	225	Limestone and light show spar (heavy water 222½)
225	227½	Limestone and better show spar (lead shines)
227½	230	Spar, show zinc and lead shines
230	232½	Zinc and lead
232½	240	Limestone, show of lead and zinc and trace of spar
240	246	Limestone, spar, lead and zinc shines
246	250	Limestone
		(Hole started caving at 230')

Hole: No. 141

Description: Churn

Location: Crystal

Elevation: 576.7

Period: July 13, 1943 to July 21, 1943

From	To	Report
0	13	Surface
13	100	Sandstone
100	105	Sandstone and limestone (contact at 103')
105	120	Limestone
120	130	Limestone and shale
130	140	Shale
140	145	Shale and limestone
145	170	Limestone
170	175	Limestone (trace spar)
175	190	Limestone (show spar)
190	215	Sandstone (show spar)
215	220	Sandstone and spar (water at 220') ( $1\frac{1}{2}'$ soft drilling 218 $\frac{1}{2}$ -220)
220	222 $\frac{1}{2}$	Sandstone, limestone and spar ( $1\frac{1}{2}'$ soft drilling 222-223 $\frac{1}{2}$ ) (Limestone contact 221 $\frac{1}{2}'$ )
222 $\frac{1}{2}$	225	Limestone and spar
225	230	Limestone
230	235	Limestone and show spar 1 $\frac{1}{2}'$ -233 $\frac{1}{2}$ -235'
235	240	Limestone and show spar
240	250	Limestone
250	255	Limestone (show zinc)
255	275	Limestone
275	280	Limestone and sandstone
280	285	Sandstone and limestone
285	288	Limestone

Hole: No. 142

Description: Churn

Location: Crystal

Elevation: 399.0

Period: July 15, 1943 to July 28, 1943

From	To	Report
0	20	Sandstone and gravel
20	22	Sandstone
22	32	Sandstone (blue)
32	39½	Sandstone (shines at 35½-39)
39½	42'10"	Ore
42'10"	44'3"	Limestone
44'3"	44'11"	Shale
44'11"	47'2"	Ore
47'2"	48'6"	Limestone

Hole: No. 143

Description: Churn

Location: Crystal

Elevation: 578.8

Period: July 22, 1943 to August 7, 1943

From	To	Report
0	13	Surface
13	20	Sandstone and shale
20	100	Sandstone
100	105	Sandstone and limestone (contact at 104½)
105	120	Limestone
120	130	Limestone and shale
130	140	Shale
140	145	Shale and limestone
145	190	Limestone
190	195	Limestone and sandstone
195	220	Sandstone
220	222½	Sandstone, show spar, zinc and lead
<i>R-22</i> 222½	225	<i>R-22</i> Sandstone, limestone, water, spar and trace of lead Line contact 223'. Opening 224-224½' - lost most of sample, probably one foot of ore above opening
<i>S</i> 225	227½	Limestone, spar, lead and show of zinc
227½	230	Limestone (ore cavings) about 3½' of ore between 225 and 230
230	280	Limestone, (spar cavings 255-260)
280	290	Dark limestone

Hole: No, 144

Description: Churn

Location: Crystal

Elevation: 398.7

Period: July 30, 1943 to August 1, 1943

From	To	Report
0	25	Sandstone and sandstone boulders
25	38	Sandstone
38	43'7"	Sandstone
43'7"	44	Spar
44	44'3"	Opening sand running in
44'3"	48'2"	Spar
48'2"	51'8"	Spar - good grade
51'8"	52'1"	Limestone
52'1"	53	Spar
53	54	Limestone

Hole: No. 145

Description: Churn

Location: Crystal

Elevation: 465.2

Period: August 20, 1943 to September 1, 1943

From	To	Report
0	4	Surface
4	12	Paint Creek shale
12	20	Red sandstone
20	40	White sandstone
40	50	Sandstone and blue shale
50	95	Sandstone (water at 50-55') (hard 80-85') (crack 90-95')
95	100	Limestone
100	105	Limestone (shale break)
105	115	Limestone
115	120	Limestone and shale
120	135	Shale
135	145	Shale and limestone
145	185	Limestone (sandy 180-185)
185	210	Rosiclare sandstone
210	270	Limestone (oolitic 240-255)
270	275	Sandy limestone
275	280	Limestone

Hole: No. 146

Description: Churn and core

Location: Crystal

Elevation: 399.0

Period: August 4, 1943 to August 5, 1943

From	To	Report
0	2	Surface
2	16	Sandstone boulders
16	45	Sandstone
45	46	Sandstone and spar (top of ore 45½')
46		Hole continued with core drill
46'6"	47'3"	Spar and barite
47'3"	52	Limestone
52	52'8"	Shale
52'8"	64	Limestone
64	67'6"	Limestone and shale
67'6"	76	Shale
76	78	Limestone
78	87	Shale
87	93	Limestone and shale
93	100	Limestone
100	103	Limestone and shale
103	125'3"	Limestone
125'3"	161	Rosiclare sandstone
161	222	Limestone
222	233	Sub Rosiclare sandstone
233	244	Limestone

Hole: No. 147

Description: Churn and core

Location: Crystal

Elevation: 398.7

Period: August 9, 1943 to August 10, 1943

From	To	Report
0	16	Boulders and sand
16	38	Sandstone
38	41	Sandstone (shows ore)
		Hole continued with core drill
41	44'6"	Ore
44'6"	54	Limestone

Hole: No. 148

Description: Churn

Location: Crystal

Elevation: 583.2

Period: August 10, 1943 to August 16, 1943

From	To	Report
0	25	Sandy soil
25	55	Sandstone and shale broken
55	115	Sandstone (little limestone 110-115)
115	130	Limestone
130	140	Limestone (shaley)
140	160	Limestone and shale
160	200	Limestone
200	230	Rosiclare sandstone
230	235	Rosiclare sandstone and limestone
235	305	Limestone

Hole: No. 149

Description: Churn

Location: Crystal Elevation: 399.8

Period: August 13, 1943 to August 14, 1943

From	To	Report
0	13	Sand and boulders
13	45	Sandstone
45	49	Sandstone and limestone (contact at 48')

Hole: No. 150

Description: Churn

Location: Crystal

Elevation: 398.6

Period: August 18 to August 21, 1943

From	To	Report
0	16	Boulders
16	20	Sandstone
20	25	Gray sandstone
25	37½	White sandstone and hard
37½	40	Crack mud and limestone (traces of spar in the mud)
40	48	Limestone
48	49	Shale
49	56	Limestone

Hole: No. 151

Description: Churr

Location: Crystal

Elevation: 570.7

Period: August 18, 1943 to August 23, 1943

From	To	Report
0	20	Soil
20	110	Sandstone (little water 85-90')
110	115	Sandstone and limestone (contact 112')
115	135	Limestone
135	160	Limestone and shale
160	200	Limestone
200	230	Rosiclare sandstone
230	235	Rosiclare sandstone and limestone (contact 234')
235	305	Limestone

Hole: No. 152

Description: Churn and core

Location: Crystal

Period: August 25 and 26, 1943

Elevation: 399.8

From	To	Report
0	20	Sand and soil
20	42	Sandstone (water 25-30')
		Hole continued with core drill
42	44'10"	Sandstone
44'10"	52	Spar and some barite
52	54'4"	Limestone
54'4"	55'8"	Shale
55'8"	57'8"	Spar good
57'8"	58'10"	Limestone

*Rew 44-52  
56-58*

*400  
45  
355*

Hole: No. 153

Description: Churn and core

Location: Crystal

Period: August 26 and 27, 1943

Elevation: 399.7

From	To	Report
0	20	Sandy soil
20	36	Sandstone (water 25-30')
		Hole continued with core drill
36	45'3"	Sandstone
45'3"	56	Limestone

Hole: No. 154

Description: Churn

Location: Crystal

Elevation: 556.0

Period: August 27 to September 9, 1943

From	To	Report
0	15	Sandy soil
15	20	Sandstone and mud
20	110	Sandstone
110	140	Limestone
140	155	Shale
155	195	Limestone
195	200	Limestone and sandstone
200	225	Rosiclare sandstone
225	295	Limestone
295	300	Sandy limestone
300	303	White limestone

Hole: No. 155

Description: Churn and core

Location: Crystal

Elevation: 398.8

Period: August 28 and 30, 1943

From	To	Report
0	15	Sandy soil
15	43	sandstone (water 25-30')
		Hole continued with core drill
43	43'6"	Crack some spar and shale lime
43'8"	45	Limestone, some zinc shines
45	50	Crack spar, zinc, shale, barite and calc (core very short)
50	56'6"	Limestone

Hole: No. 156

Description: Churn

Location: Crystal

Elevation: 461.1

Period: September 3, 1943 to September 18, 1943

From	To	Report
0	3	Surface
3	9	Paint Creek shale
9	40	Sandstone
40	50	Sandstone and shale
50	90	Sandstone (crack at 70-75)
90	110	Limestone
110	115	Limestone and shale
115	120	Shale (Red Rock)
120	135	Shale
135	150	Limestone
150	160	Limestone (Ohara)
160	180	Limestone
180	185	Limestone and Rosiclare sandstone (contact at 182')
185	205	Rosiclare sandstone
205	210	Rosiclare sandstone and limestone (contact at 206')
210	265	Limestone (shale break 218-219') (faint trace spar 225-230')
265	270	Limestone and Sub Rosiclare sandstone
270	275	Limestone

Hole: No. 157

Description: Churn and core

Location: Crystal

Elevation: 398.1

Period: August 31 - September 2, 1943

From	To	Report
0	20	Sandy soil
20	35	Sandstone
35	36	Sandstone, little ore and little lime
		Hole continued with core drill
36	37	Limestone with zinc shines
37	42'4"	Limestone
42'4"	42'10"	Shale
42'10"	48	Limestone

Hole: No. 158

Description: Churn

Location: Crystal

Elevation: 477.3

Period: October 5, 1943 to October 18, 1943

From	To	Report
0	2	Surface
2	9	Boulders
9	18	Paint Creek shale
18	60	Sandstone
60	70	Sandstone and shale
70	95	Sandstone
95	100	Sandstone and limestone (contact at 98')
100	115	Limestone
115	120	Limestone and shale
120	125	Shale and Red Rock
125	135	Shale
135	140	Shale and limestone
140	185	Limestone (water at 140')
185	190	Limestone and Rosiclare sandstone (contact 187')
190	205	Rosiclare sandstone
205	210	Rosiclare sandstone and limestone (contact 209')
210	280	Limestone (shale break 254-255)

Hole: No. 159

Description: Churn

Location: Crystal

Elevation: 397.9

Period: September 7 and 8, 1943

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From	To	Report
0	20	Sandy soil
20	33	Sandstone (water at 29-31)
33	35	sandstone and limestone
35	37 $\frac{1}{2}$	Limestone with traces of spar
37 $\frac{1}{2}$	45	Limestone

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Hole: No. 160

Description: Churn

Location: Crystal

Elevation: 399.1

Period: September 9, 1943

From	To	Report
0	15	Sand and gravel
15	42 $\frac{1}{2}$	Sandstone
42 $\frac{1}{2}$	45	Sandstone and limestone (shines of spar)
45	47 $\frac{1}{2}$	Limestone and spar
47 $\frac{1}{2}$	50	Limestone
		(Shines at 44' Base of Bethel)
		(Soft from 45 $\frac{1}{2}$ to 46' likely spar)

Hole: No. 161

Description: Churn

Location: Crystal

Elevation: 557.8

Period: September 10 to 17, 1943

From	To	Report
0	20	Sandy soil
20	105	Sandstone (little water at 55-60')
105	110	Sandstone and limestone (contact 108')
110	130	Limestone
130	150	Limestone and shale
150	195	Limestone
195	220	Rosiclare sandstone
220	300	Limestone (contact 221') (Sandy 285-290') (White 295-300')

Hole: No. 162

Description: Churn and core

Location: Crystal

Elevation: 398.2

Period: September 17 - 18, 1943

From	To	Report
0	17	Sand and sandstone boulders
17	41	Sandstone
		Hole continued with core drill
41	42'10"	Sandstone
42'10"	48	Spar good
48	48'6"	Shale
48'6"	48'9"	Spar
48'9"	53'6"	Limestone
53'6"	59	Limestone and shale

Hole: No. 163

Description: Churn and core

Location: Crystal

Elevation: 398.7

Period: September 18 and 23, 1943

From	To	Report
0	47	Sand and sandstone boulders (Show of spar at 36' mud and water)
		Hole continued with core drill
47	54	Sandstone boulders
54	54'6"	Limestone
54'6"	60	Mud and shale (Limestone at 60')

Hole: No. 164

Description: Churn

Location: Crystal

Elevation: 548.8

Period: September 22 to 29, 1943

From	To	Report
0	20	Sand soil
20	110	Sandstone (little water 40-45')
110	130	Limestone
130	160	Limestone and shale
160	195	Limestone
195	225	Rosiclare sandstone
225	300	Limestone (white 295-300')

Hole: No. 165

Description: Churn

Location: Crystal

Elevation: 537.0

Period: September 30 to October 7, 1943

From	To	Report
0	20	Sandy soil
20	105	Sandstone
105	130	Limestone
130	155	Limestone and shale
155	190	Limestone
190	195	Limestone and Rosiclare sandstone
195	220	Rosiclare sandstone
220	298	Limestone (white at 295-298')

Hole: No. 166

Description: Churn

Location: Crystal

Elevation: 521.3

Period: October 8 to 15, 1943

From	To	Report
0	20	Sandy soil
20	100	Sandstone (little water 95-100')
100	125	Limestone
125	150	Limestone and shale
150	185	Limestone (sandy 175-185')
185	215	Rosiclare sandstone
215	295	Limestone (white 290-295')

Hole: No. 167

Description: Churn

Location: Crystal

Elevation: 575.7

Period: October 16 to 23, 1943

From	To	Report
0	25	Sandy soil
25	100	Sandstone
100	105	Sandstone and limestone (contact at 103')
105	130	Limestone
130	150	Shale
150	190	Limestone (sandy 180-190')
190	215	Rosiclare sandstone
215	290	Limestone (contact at 216')

Hole: No. 168

Description: Churn

Location: Crystal

Elevation: 442.7

Period: October 20 - November 3, 1943

From	To	Report
0	2	Surface
2	25	Sandstone
25	35	Sandstone and shale
35	70	Sandstone (white 40'-45')
70	75	Sandstone and limestone (contact at 73')
75	90	Limestone
90	95	Limestone and shale (crack) (Heavy water)
95	100	Limestone
100	105	Limestone and shale
105	115	Shale
120	125	Shale and limestone
125	155	Limestone
155	165	Limestone (pink) (quartz)
165	170	Limestone and Rosiclare sandstone (contact at 168')
170	185	Rosiclare sandstone
185	190	Rosiclare sandstone and limestone
190	270	Limestone (shale break 212 $\frac{1}{2}$ - 215')

Hole: No. 169

Description: Churn

Location: Crystal

Elevation: 571.4

Period: October 25 to November 8, 1943

From	To	Report
0	20	Sandy soil
20	105	Sandstone
105	125	Limestone
125	135	Shale
135	150	Shale and limestone
150	190	Limestone
190	220	Rosiclare sandstone
220	300	Limestone (white 295-300')

Hole: No. 170

Description: Churn

Location: Crystal

Elevation: 576.4

Period: November 9 to 17, 1943

From	To	Report
0	20	Soil
20	95	Sandstone
95	120	Limestone
120	145	Shale
145	185	Limestone
185	215	Rosiclare sandstone
215	220	Rosiclare sandstone (one foot lead ore) (lead and traces of spar) (contact at 218')
220	295	Limestone (water at 220-225)

Hole: No. 171

Description: Churn

Location: Crystal

Elevation: 460.4

Period: November, 1943

From	To	Report
0	15	Surface and boulders
15	25	Sandstone and shale
25	60	Sandstone
60	80	Sandstone and shale
80	90	Sandstone
90	95	Sandstone and shale
95	110	Sandstone
110	113	Sandstone and poor spar
113	120	Limestone
120	131	Limestone and shale (water between 125 and 130')
131	150	Shale
150	160	Shale and mud
160	166	Shale
166	180	Dark grey limestone
180	185	Grey limestone
185	207	Pink grain limestone
207	232	Rosiclare sandstone
232	235	Light grey limestone
235	260	Grey limestone and lead shines
260	285	Grey limestone
285	295	Limestone
295	300	Sub Rosiclare sandstone (calc)
300	305	Limestone

Hole: No. 172

Description: Churn

Location: Crystal

Elevation: 570.4

Period: November 30, 1943 to December, 1943

From	To	Report
0	12	Surface
12	75	Sandstone
75	85	Sandstone, grey
85	90	Sandstone, grey and yellow
90	100	Sandstone (water 90-95')
100	120	Limestone
120	125	Limestone and shale
125	140	Shale
140	145	Shale and limestone
145	185	Limestone
185	190	Limestone and Rosiclare sandstone (contact 186')
190	215	Rosiclare sandstone (traces of spar at 205-210) (spar shines at 210-215)
215	217½	Rosiclare sandstone, spar and lead
217½	220	Rosiclare sandstone, mud, limestone and lead shines
220	230	Limestone
230	240	Limestone with lead shines
240	245	Limestone with zinc shines
245	250	Limestone, traces of lead and zinc
250	275	Limestone
275	280	Limestone and Sub Rosiclare sandstone
280	285	Sub Rosiclare sandstone
285	300	Limestone (calc 290-295')



Hole: No. 174

Description: Churn

Location: Crystal

Elevation: 467.6

Period: December, 1943

From	To	Report
0	8	Surface
8	25	Sandstone
25	30	Sandstone and Paint Creek shale
30	40	Paint Creek shale
40	121 $\frac{1}{2}$	Sandstone
121 $\frac{1}{2}$	129	Spar
129	140	Limestone
140	145	Limestone and shale
145	165	Shale and mud (water between 160-165')
165	170	Shale and limestone
170	213 $\frac{1}{2}$	Limestone (sandy 200-205') (water between 180-185)
213 $\frac{1}{2}$	240	Rosiclare sandstone
240	308	Limestone (water between 250-255) (very few cuttings from 255-260')
308	311	Sub Rosiclare sandstone
311	315	Limestone.



Hole: No. 176

Description: Churn

Location: Crystal

Elevation: 568.6

Period: December, 1943

From	To	Report
0	12	Surface
12	100	Sandstone (white 75 to 100')
100	120	Limestone
120	125	Limestone and shale (Red Rock)
125	140	Shale
140	150	Shale and limestone
150	187	Limestone (Grey 170 to 187')
187	213 $\frac{1}{2}$	Rosiclare sandstone (water between 212 $\frac{1}{2}$ and 215')
213 $\frac{1}{2}$	217	Spar and lead
217	270	Limestone
270	275	Limestone and Sub Rosiclare sandstone
275	280	Limestone (oolitic)

Hole: No. 177

Description: Churn

Location: Crystal

Elevation: 434.3

Period: December, 1943

From	To	Report
0	6	Soil and boulders
6	30	Yellow sandstone
30	40	Grey sandstone and shale streaks
40	73	Grey sandstone
73	81	Yellow sand (water between 75-80')
81	102	Limestone
102	110	Shale and mud, red limestone streak
110	125	Shale and mud
125	172	Limestone (pink grain from 155 to 172)
172	198	Rosiclare sandstone
198	235	Limestone
235	261	Limestone and some calc
261	266	Sub Rosiclare sandstone
266	270	Limestone

Hole: No. 178

Description: Churn

Location: Crystal

Elevation: 434.0

Period: January, 1944

From	To	Report
0	5	Soil
5	30	Sandstone
30	81	Grey and yellow sandstone (water between 70 & 75')
81	85	Limestone with a few spar shines
85	95	Limestone
95	100	Limestone and shale (water between 95 and 100')
100	126	Shale and mud
126	134	Limestone
134	155	Limestone streaks and yellow mud
155	173	Grey limestone
173	196 $\frac{1}{2}$	Rosiclare sandstone
196 $\frac{1}{2}$	275	Limestone (grey 270-275')

Hole: No. 179

Description: Churn

Location: Crystal

Elevation: 563.0

Period: January, 1944

From	To	Report
0	10	Surface
10	20	Yellow sandstone
20	35	Grey sandstone
35	45	Yellow sandstone
45	90	Grey sandstone
90	95	Sandstone
95	100	Sandstone and limestone (contact at 98')
100	115	Limestone
115	120	Limestone and shale
120	125	Limestone and shale (Red Rock)
125	140	Shale
140	145	Shale and limestone
145	185	Limestone
185	190	Limestone and Rosiclare sandstone
190	215	Rosiclare sandstone
215	270	Limestone
270	275	Sub Rosiclare sandstone and white mud
275	280	Oolitic limestone

Hole: No. 180

Description: Churn

Location: Crystal

Elevation: 447.5

Period: January, 1944

From	To	Report
0	2	Surface
2	5	Shale and mud
5	7	Boulders
7	69	Yellow sandstone
69	85	White and yellow sandstone
85	90	White sandstone
90	92 $\frac{1}{2}$	Fair spar and mud
95	97 $\frac{1}{2}$	Fair spar and zinc shales
97 $\frac{1}{2}$	100	Spar, calc and limestone
100	103	Limestone
103	125	Shale and mud
125	135	Shale and limestone
135	150	Limestone
150	169	Grey limestone
169	202	Rosiclare sandstone (little water between 175 and 180')
202	215	Limestone
215	245	Grey limestone
245	266	Limestone
266	270	Sub Rosiclare sandstone
270	275	Sub Rosiclare sandstone, some limestone



Hole: No. 182

Description: Churn

Location: Crystal

Elevation: 450.8

Period: January, 1944

From	To	Report
0	8	Soil and boulders
8	35	Yellow sandstone
35	62	Shale and mud
62	70	Yellow sandstone
70	86	Sandstone
86	87	Spar
87	98	Limestone
98	105	Limestone and shale
105	110	Limestone and shale and yellow mud
110	116	Yellow mud
116	120	mud
120	130	Shale and mud
130	140	Limestone
140	160	Grey limestone
160	174	Grey sandy limestone (water at 174')
174	203 $\frac{1}{2}$	Rosiclare sandstone
203 $\frac{1}{2}$	206	Spar, lead and zinc shines
206	210	Limestone, some lead and zinc
210	240	Grey limestone
240	262	Dark grey limestone
262	268	Sub Rosiclare sandstone
268	280	Grey limestone





Hole: No. 185

Description: Churn

Location: Crystal

Elevation: 463.8

Period: February, 1944

From	To	Report
0	3	Soil and boulders
3	15	Soapstone
15	27	Blue mud
27	50	Yellow sandstone
50	67	Shale and mud
67	70	Yellow sandstone
70	75	White sandstone and shale
75	89	White sandstone
89	100	Mud opening
100	111	Limestone
111	120	Shale
120	137	Shale and mud
137	150	Limestone (slide at 150')
150	170	Limestone and yellow mud seams
170	175	No cuttings (Yellow mud)
175	185	Sandy limestone (water between 180-185')
185	200	Rosiclare sandstone
200	205	Rosiclare sandstone (same limestone)
205	215	Rosiclare sandstone
215	230	Limestone

Hole: No. 186

Description: Churn

Location: Crystal

Elevation: 461.7

Period: February, 1944

From	To	Report
0	10	Surface
10	15	Broken sandstone
15	45	Sandstone
45	65	Limestone (sandy 55 to 65')
65	80	Rosiclare sandstone
80	85	Rosiclare sandstone and spar
85	92 $\frac{1}{2}$	Rosiclare sandstone and spar
92 $\frac{1}{2}$	95	Limestone, spar and water
95	120	Limestone
120	125	Limestone (ore about 1 ft. 124 to 125')
125	130	Limestone and shales of spar
130	135	Limestone
135	140	Limestone and sandstone
140	150	Sandstone

Hole: No. 187

Description: Churn

Location: Crystal

Elevation: 445.7

Period: February, 1944

From	To	Report
0	5	Surface
5	10	Boulders
10	15	Sandy limestone
15	20	Limestone
20	25	Broken, muddy, cuttings lost
25	40	Limestone
40	62 $\frac{1}{2}$	Rosiclare sandstone
62 $\frac{1}{2}$	75	Limestone
75	115	Grey limestone
115	125	Dark limestone
125	130	Limestone and sandstone
130	135	Sandstone
135	140	Sandstone and limestone

Hole: No. 188

Description: Churn

Location: Crystal

Elevation: 462.1

Period: February, 1944

From	To	Report
0	5	Soil and boulders
5	17	Soapstone
17	31	Sandstone
31	40	Brown sandstone (gravelly)
40	45	Sandstone
45	55	Shale and mud
55	83½	Sandstone
83½	86	Spar
86	87	Limestone
87	91	Opening
91	115	Limestone (slide from 91 to 94')

Hole: No. 189

Description: Churn

Location: Crystal

Elevation: 434.0

Period: February, 1944

From	To	Report
0	10	Soil
10	15	Boulders
15	25	Limestone
25	50	Rosiclare sandstone
50	55	Rosiclare sandstone and limestone
55	115	Limestone (sandy from 110 to 115')
115	120	Sandstone
120	165	Limestone (water 140 to 145')

Hole: No. 190

Description: Churn

Location: Crystal

Elevation: 464.3

Period: March, 1944

From	To	Report
0	3	Soil and boulders
3	19	Soapstone
19	40	Sandstone (slide at 36')
40	65	Sandstone and shale
65	83	Sandstone
83	88	Limestone
88	93	Opening (slide at 93')
93	95	Limestone, boulders and mud
95	100	Limestone

Hole: No. 191

Description: Churn

Location: Crystal

Elevation: 418.7

Period: March, 1944

From	To	Report
0	38	Surface
38	42	Limestone and spar (2½ feet of spar)
42	60	Limestone
60	65	Limestone, 2 feet of spar and red mud
65	70	Limestone
70	75	Limestone (show spar, possibly caving)
75	90	Limestone
90	95	Sandstone
95	100	Sandstone and spar
100	115	Broken limestone
115	118	Broken limestone boulders
118	127½	Broken limestone

Hole: No. 192

Description: Churn

Location: Crystal

Elevation: 421.3

Period: March, 1944

From	To	Report
0	15	Soil
15	35	Rosiclare sandstone
35	40	Rosiclare sandstone and spar at 36'
40	45	Spar
45	47½	Spar and limestone
47½	50	Limestone with shales of spar
50	95	Limestone (sandy at 90 to 95')
95	100	Sandstone
100	135	Limestone

Hole: No. 193

Description: Churn

Location: Crystal

Elevation: 463.4

Period: March, 1944

From	To	Report
0	6	Soil and boulders
6	80	Sandstone
80	85	Sandstone and limestone (small crevice of ore) (contact at 83')
85	100	Limestone
100	105	Limestone
105	110	Shaley limestone
110	120	Limestone
120	125	Shale
125	130	Shale and limestone
130	165	Limestone
165	193	Rosiclare sandstone
193	205	Limestone

Hole: No. 194

Description: Churn

Location: Crystal

Elevation: 421.3

Period: March, 1944

From	To	Report
0	10	Soil
10	30	Rosiclare sandstone
30	35	Rosiclare sandstone (ore at 33½')
35	37½	Limestone and water
37½	90	Limestone
90	95	Limestone and sandstone
95	100	Sandstone
100	110	Limestone

Hole: No. 195

Description: Churn

Location: Crystal

Elevation: 422.8

Period: March, 1944

From	To	Report
0	15	Soil and boulders
15	30	Rosiclare sandstone
30	35	Rosiclare sandstone and limestone (contact at 33')
35	90	Limestone
90	95	Shaley limestone
95	100	Sandstone
100	110	Limestone

Hole: No, 196

Description: Churn

Location: Crystal

Elevation: 573.3

Period: April, 1944

From	To	Report
0	5	Soil
5	18	Sandy soil
18	91	Sandstone
91	115	Limestone
115	140	Shale
140	160	Dark Limestone
160	175	Light Limestone
175	180	Light sandy limestone
180	210	Rosiclare sandstone
210	215	Limestone
215	220	Light limestone and lead shins
220	225	Light limestone
225	235	Grey limestone
235	240	Limestone and spar
240	245 $\frac{1}{2}$	Limestone, spar, lead and zinc
245 $\frac{1}{2}$	260	Grey limestone
260	265	Dark limestone
265	270	Dark limestone, spar, calc and zinc
270	279	Sub Rosiclare sandstone

Hole: No. 197

Description: Churn

Location: Crystal

Elevation: 408.6

Period: April, 1944

From	To	Report
0	12	Soil
12	25	Boulders
25	70	Limestone
70	75	Limestone and sandstone
75	80	Sandstone
80	85	Sandstone and limestone (contact at 81')
85	90	Limestone

Hole: No. 198

Description: Churn

Location: Crystal

Elevation: 419.7

Period: April, 1944

From	To	Report
0	15	Soil
15	20	Sandstone and Rosiclare sandstone
20	40	Rosiclare sandstone (water at 30-35')
40	100	Limestone
100	105	Limestone and sandstone
105	110	Sandstone
110	112½	Sandstone and limestone

Hole: No. 199

Description: Churn

Location: Crystal

Elevation: 563.1

Period: April, 1944

From	To	Report
0	12	Sandy soil
12	67	Sandstone (yellow 55 to 67')
67	90	Limestone
90	95	Limestone and shale
95	110	Shale
110	115	Shale and limestone
115	145	Limestone (grey from 135 to 145')
145	150	Grey limestone and Rosiclare sandstone
150	186	Rosiclare sandstone
186	250	Limestone (grey from 205 to 225) (dark from 225 to 250)
250	260	Sub Rosiclare sandstone
260	262½	Grey limestone

Hole: No. 200

Description: Churn

Location: Crystal

Elevation: 447.1

Period: April, 1944

From	To	Report
0	10	Soil and boulders
10	40	Limestone
40	70	Rosiclare sandstone (water at 55 to 60')
70	75	Rosiclare sandstone and limestone
75	145	Limestone (sandy 135 to 145')
145	152	Limestone