

INTERVAL SHEET

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VDMR WELL NO. W 693

Date 8/28/62

Sample Interval: from 7 to 458

PROP: Bowers-Campbell

Total Depth 458

COMP: Tri-State Zinc, Inc.

Oil      Gas      Water      Exploratory x

COUNTY: Rockingham

Cuttings      Core x Other     

From-To	From-To	From-To	From-To	From-To
7.9 - 8.1	55.0 - 55.3	105.0 - 105.2	145.7 - 145.9	205 - 205.2
8.7 - 8.9	57.0 - 57.2	106.0 - 106.2	149.0 - 149.3	207 - 207.2
9.4 - 9.6	58.1 - 58.3	107.0 - 107.3	152.0 - 152.3	207.7 - 208
9.6 - 10.0	58.8 - 58.1	110.8 - 111.0	153.0 - 153.3	209 - 209.2
10.0 - 10.1	65.0 - 65.2	111.4 - 111.6	155.3 - 155.6	211 - 211.3
10.7 - 11.0	71.0 - 71.2	112.5 - 112.7	158.0 - 158.3	212.5 - 212.7
11.8 - 12.0	72.5 - 72.7	114.5 - 114.7	159.5 - 159.7	213 - 213.2
12.3 - 12.5	75.1 - 75.4	117.0 - 117.3	163.0 - 163.2	213.7 - 213.9
13.5 - 13.7	76.5 - 76.7	118.0 - 118.1	163.5 - 163.7	215.0 - 215.2
15.0 - 16.5	77.0 - 77.2	120.0 - 120.3	164.2 - 164.5	218.5 - 218.8
16.5 - 19.0	79.2 - 79.5	122.0 - 122.2	165.5 - 165.7	219.1 - 219.4
20.0 - 20.2	79.5 - 79.8	123.0 - 123.2	169.0 - 169.3	222.0 - 222.2
22.5 - 22.7	83.5 - 83.8	123.3 - 123.6	170.5 - 170.7	225.0 - 225.2
23.7 - 23.9	85.0 - 85.5	125.5 - 125.8	173.0 - 173.2	226.0 - 226.2
24.2 - 24.4	86.0 - 86.2	126.5 - 126.6	179.0 - 179.3	226.6 - 226.8
27.2 - 27.4	88.0 - 88.2	127.5 - 127.7	181.8 - 182	227.4 - 227.6
29.4 - 29.7	88.7 - 88.9	129.9 - 130.0	182.7 - 183	227.8 - 228
31.0 - 31.3	92.0 - 92.2	130.0 - 130.1	185.0 - 185.2	229 - 229.2
31.7 - 31.9	95.0 - 95.2	131.2 - 131.4	187.0 - 187.3	232.2 - 232.4
33.7 - 33.9	96.5 - 96.7	132.5 - 132.8	188.3 - 188.5	234.0 - 234.2
35.2 - 35.4	98.9 - 99.0	134.0 - 134.2	190.0 - 190.2	234.3 - 234.5
37.1 - 37.3	99.8 - 100.0	136.0 - 136.1	191.5 - 191.7	236.7 - 236.9
38.0 - 38.2	100.0 - 100.3	138.0 - 138.2	192.5 - 192.8	237.4 - 237.7
42.0 - 42.2	100.6 - 100.8	140.0 - 140.2	193.3 - 193.6	238.3 - 238.6
44.0 - 44.3	102.0 - 102.2	141.0 - 141.2	193.8 - 194.8	239.0 - 239.2
48.0 - 48.2	103.0 - 103.2	141.2 - 141.4	195.3 - 195.5	240.0 - 240.2
52.0 - 52.3	103.6 - 103.9	141.5 - 141.7	196.5 - 196.7	240.4 - 240.6
-	-	-	199.5 - 199.7	241.5 - 242.0
-	-	-	200.0 - 200.2	243.9 - 244
-	-	-	202.0 - 202.2	244.2 - 244.5

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Date 8-28-62

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COMP: Tri-State Pb-2N

COUNTY: Rockingham

VDMR WELL NO. W 693

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Total Depth 458

Oil      Gas      Water      Exploratory x

Cuttings      Core x Other     

From-To	From-To	From-To	From-To	From-To
247 - 247.3	285.8 - 286.0	324.5 - 324.7	368.3 - 368.5	408.0 - 408.3
249.9 - 250.2	286.3 - 286.5	325.5 - 325.8	369.0 - 369.2	410.0 - 410.3
248.8 - 249.0	290. - 290.2	328.0 - 328.1	371.0 - 371.2	412.2 - 412.5
250.4 - 250.5	291.8 - 292.0	330.1 - 330.4	372.5 - 372.7	412.8 - 413.0
251.0 - 251.2	294.0 - 294.3	330.4 - 330.6	373.0 - 373.1	413.1 - 413.3
252 - 252.2	294.5 - 295.0	331.0 - 331.2	375.0 - 375.2	414.7 - 415
253.5 - 253.7	295.0 - 295.2	333.0 - 333.2	376.5 - 376.7	416.0 - 416.3
254 - 257	297.0 - 297.3	334.5 - 334.7	377.8 - 378.0	418.0 - 418.3
257 - 259	298.3 - 298.4	335.0 - 335.3	378.0 - 378.2	420.0 - 420.2
-	300.0 - 300.3	336.5 - 336.8	379.5 - 379.7	421.5 - 421.8
260 - 260.2	301 - 301.2	338.0 - 338.2	381.5 - 381.7	422.3 - 422.5
261.1 - 261.3	302.0 - 302.1	339.0 - 339.2	383.0 - 383.2	424.0 - 424.2
261.6 - 261.9	303.0 - 303.2	341.5 - 341.7	383.5 - 383.7	425.5 - 425.7
263.3 - 263.5	304.3 - 304.5	343.0 - 343.2	383.7 - 383.9	426.8 - 427.0
265.0 - 265.2	305.3 - 305.5	345.8 - 346.0	385.0 - 385.2	427.0 - 427.2
266.0 - 266.2	307.0 - 307.2	347.0 - 347.2	387.0 - 387.3	427.9 - 428.1
267.0 - 267.2	308.0 - 308.2	347.1 - 347.7	390.0 - 390.2	429.0 - 429.3
269.0 - 269.2	309.0 - 309.2	348.2 - 349.5	390.5 - 390.8	431.0 - 431.3
271.6 - 271.9	310.3 - 310.4	349.5 - 349.8	392.5 - 392.8	431.8 - 432.0
272.1 - 272.4	310.9 - 311.1	351.0 - 351.2	394.0 - 394.2	432.4 - 432.6
274.5 - 274.7	311.2 - 311.4	354 - 354.2	395.0 - 395.1	434.0 - 434.3
276.0 - 276.2	311.8 - 312.1	355 - 355.3	395.1 - 395.2	435.5 - 437.7
278.2 - 278.5	313.2 - 313.5	356.9 - 357.2	396.0 - 396.2	437.5 - 437.7
280.0 - 280.2	314.5 - 314.8	357.2 - 357.5	397.2 - 397.3	439.0 - 439.3
282.0 - 282.3	314.8 - 315.1	359.7 - 359.9	399.0 - 399.2	441.0 - 441.3
282.8 - 283.0	316.0 - 316.3	360.5 - 360.8	400.7 - 400.9	442.0 - 442.3
284.1 - 284.4	318.0 - 318.3	362.0 - 362.2	401.0 - 401.2	442.5 - 442.8
-	319.9 - 320.1	363.5 - 363.7	403.0 - 403.2	444.5 - 444.7
-	320.4 - 320.6	366.0 - 366.2	405.0 - 405.3	447.4 - 447.5
284.8 - 285.0	320.9 - 321.1	367.5 - 367.7	406.0 - 406.3	447.4 - 447.5



County: Rockingham  
VDMR Well # W 693

Well: C-25 (B-25)  
Farm: Bowers-Campbell  
Driller: Tri-State Zinc, Inc.  
Location: Broadway Quad. in mine area, 1.9 miles N 39° W of Timberville, 3.55  
miles N 62° E of Cootes Store.  
Elevation: 1180' (approximately)  
Total Depth: 458'  
Started drilling: Finished drilling:  
Sample description by: E. K. Rader, Virginia Division of Mineral Resources  
References: obtained from Tri-State Zinc, Inc., Herbert, Paul and Young, R. S.,  
1956, Sulfide Mineralization in the Shenandoah Valley of Virginia:  
Virginia Div. Geol. Bull. 70, p. 26-32.

#### GEOLOGIC SUMMARY

Depth	Thickness	Formation (and remarks)
0-7	7	Samples not received
7-458	451	Beekmantown formation: dense to coarse-grained dolomite with oolitic black and white porous chert; minor breccia zones; no sulfide mineralization.

Depth	Thickness	Description
7-8.5	1.5	Dolomite, mottled, light to medium gray, fine-grained, fractured, fractures filled with white, coarse-grained calcite and white, coarse-grained dolomite.
8.5-9.2	0.7	Breccia, intraformational; fragments light to medium gray, fine-grained dolomite; angular; cemented by white, coarse-grained dolomite, limonite stains, probably from alteration of pyrite.
9.2-9.6	0.4	Dolomite, mottled, light to medium gray, fractured, fractures filled with calcite.
9.6-10.0	0.4	Chert, light gray, dense, with medium gray dolomite.
10.0-10.7	0.7	Dolomite, light gray, dense, fractured.
10.7-11.5	0.8	Dolomite, medium gray, medium-grained, fractured; fractures with white dolomite and calcite.
11.5-12.0	0.5	Dolomite, medium gray, dense, somewhat mottled.
12.0-12.5	0.5	Breccia; fragments light to medium gray, dense, angular, dolomite; cemented by white, coarse-grained dolomite. Decomposed pyrite in white dolomite.
12.5-15.5	2.5	Dolomite, medium gray, fine grained. (core recovery poor).
15-16.5	1.5	Chert, black to dark gray, fractured.
16.5-19.0	2.5	Dolomite, dark gray to black, fractured dense.
19.0-21.0	2.0	Dolomite, medium to dark gray, fine-grained to dense, fractured, with white dolomite blebs.
21.0-23.0	2.0	Dolomite, mottled, fine-grained, with a few small white dolomite blebs.
23-24	1.0	Breccia, intraformational; fragments, angular, dark gray, dense to fine-grained dolomite, cemented by white coarse-grained dolomite.

24-29.3	5.3	Dolomite, dark gray to black, fine-grained laminated, white dolomite, blebs.
29.3-31.0	1.7	Dolomite, mottled, somewhat laminated, medium gray, medium grained.
31.0-31.6	0.6	Dolomite, laminated, weathered to a gray to buff banded rock, fractured.
31.6-36.0	4.4	Dolomite, medium gray to black, mottled; fine-grained, fractured.
26.0-27.0	1.0	Dolomite, medium gray, fine-grained.
37.0-40.0	3.0	Dolomite, medium to dark gray, fine-grained with intraformational breccia cemented by dark gray dolomite; and somewhat mottled in places.
40.0-58.0	18.0	Dolomite, light to medium gray, dense, siliceous, fractured in lower portion, with white, coarse-grained dolomite.
58-62.5	4.5	Dolomite, dark gray to black, laminated and mottled, fine-grained. (Probably Herbert and Young's Park Bed No.3).
62.5-72	9.5	Dolomite, medium-gray, dense, fracture, with minor white dolomite.
72-75	3.0	Dolomite, dark gray to black, banded, fine-grained.
75-76	1.0	Dolomite, intraformational breccia, dark gray to black, platy fragments, fine-grained.
76-76.9	0.9	Dolomite, dark gray to black, finely laminated.
76.9-79.5	2.6	Dolomite, dark gray to black, fine-grained, fractured, with minor white dolomite. Pyrite at bottom.
79.5-85.5	6.0	Dolomite, light to medium gray, dense, fractured, with white dolomite and minor calcite.
85.5-88.7	3.2	Dolomite, dark gray to black, finely laminated, fine-grained.
88.7-95.0	6.3	Dolomite, dark gray to black, faintly laminated, fine grained.

95.0-98.8	3.8	Dolomite, dark gray, fine-grained.
98.8-100	1.2	Dolomite, intraformational breccia, dark gray to black with some lighter fragments in fine-grained dolomite.
100-100.5	0.5	Dolomite, dark gray to black, laminated, fine-grained, pyrite at top.
100.5-103.5	3.0	Dolomite, medium to dark gray, fine-grained to dense, siliceous, mottled; may be in part an intraformational breccia; vugs of white dolomite.
103.5-105.0	1.5	Dolomite, medium gray, dense, siliceous, fractured, fractures filled with black, fine-grained pyrite (?).
105-105.7	0.7	Dolomite, mottled, light material more siliceous, fractured.
105.7-106.2	0.5	Breccia; fragments - dark gray, fine-grained dolomite cemented by white, coarse-grained dolomite.
106.2-110	3.8	Dolomite, mottled, light gray material more siliceous and fine-grained; may be in part an intraformational breccia.
110-111.2	1.2	Dolomite, dark gray to black, faintly laminated, fine-grained.
111.2-117.5	6.3	Dolomite, medium gray, fine-grained, to dense, fractured, minor white dolomite; intraformational breccia at top; vugs of white dolomite; mottled in places.
117.5-123.0	5.5	Dolomite, fine-grained, dark gray to black, fractured, with white dolomite; very minor pyrite associated with white dolomite; vugs of white dolomite; finely laminated.
123.0-130.0	7.0	Dolomite, mottled, dense to fine-grained, very faintly laminated, vugs of white dolomite; light colored dolomite more siliceous than dark; intraformational breccia at top.
130-131.6	1.6	Dolomite, medium to dark gray, fine-grained, highly fractured, with white dolomite and black, fine-grained dolomite.

131.6-141	9.4	Dolomite, light to medium gray, dense, to fine-grained, laminated with minor white dolomite; locally cherty.
141-141.5	0.5	Dolomite, mottled, fine- to medium-grained, siliceous; darker material finer-grained.
141.5-157.0	15.5	Dolomite, medium to dark gray, fine-grained, fractured, with minor white dolomite. (core recovery poor in places).
157.0-161.5	4.5	Dolomite, medium to dark gray, fine-grained, laminated.
161.5-164	2.5	Breccia; fragments light gray, angular, dense, siliceous dolomite cemented by black fine-grained, siliceous dolomite.
164-165	1.0	Dolomite, light to medium gray, fine-grained, faintly laminated.
165-170	5.0	Dolomite, mottled, light gray dolomite dense, siliceous; dark gray to black dolomite, fine-grained; highly fractured, cemented by white vein dolomite.
170-181	11.0	Dolomite, medium gray, laminated, highly fractured, fractures filled by white calcite and dolomite, medium gray dolomite dense; black to dark gray laminations fine-grained. (core recovery poor).
181-182	1.0	Dolomite, mottled, dense to fine-grained dark dolomite minor.
181-186	5.0	Dolomite, medium gray, fine-grained, fractured, fractures filled with white dolomite. Some fractures filled with what appears to be fine-grained pyrite. (core recovery poor 183.5 to 186).
186-188	2.0	Dolomite, medium gray, fine-grained, highly fractured, fractures filled with white vein dolomite; laminated. (core crushed).
188-191.2	3.2	Breccia, intraformational; fragments-light to medium gray, dense dolomite, cement black, fine-grained dolomite.



191.2-192	0.8	Dolomite, light to medium gray, fine-grained.
192-195	3.0	Breccia; fragments - medium gray fine-grained dolomite cemented by black dolomite and white coarse-grained dolomite. At 194 crystal of calcite, to $\frac{1}{4}$ fragments angular.
195-196	1.0	Dolomite, medium gray, fine-grained laminated, fractured.
196-199.5		Dolomite, light to medium gray, dense, fractured.
199.5-199.7	0.2	Breccia; angular fragments of medium gray, fine-grained dolomite cemented by white dolomite.
199.7-207.7	7.0	Dolomite, medium gray, dense, with some black streaks of what appears to be very fine-grained pyrite; fractured.
207.7-208.2	0.5	Chert, light to medium gray, dense, highly fractured, fractures filled with calcite.
208.2-211	2.8	Dolomite, light to medium gray, highly fractured, fractures filled with calcite.
211-213.5	2.5	Dolomite, dark gray, fine-grained, fractured at top, chert at 212.5-212.6; minor white dolomite.
213.5-219	5.5	Breccia, subangular fragments of medium to dark gray, dense to fine-grained dolomite cemented by dark gray to black zinc grained dolomite and minor white dolomite.
219-221	3.0	Dolomite, medium to dark gray, fine-grained, laminated.
221-224.8	2.8	Dolomite, medium gray, fine-grained, with black laminations.
224.8-226.5	1.7	Breccia, subangular fragments of medium gray, fine-grained dolomite cemented by dark gray to black, fine-grained dolomite.
226.7-227	0.5	Dolomite, medium to dark gray, dense, siliceous; very minor white dolomite.
227-227.7	0.7	Dolomite, light to medium gray, fine-grained.

227.7-233.8	6.1	Breccia, fragments, subangular to subrounded of fine-grained dolomite with blebs of white dolomite cemented by dark gray to black, fine-grained dolomite.
233.8-234.3	0.5	Dolomite, light to medium gray, dense, siliceous.
234.3-235.3	1.0	Breccia, subangular fragments of dense to fine grained dolomite cemented by black, fine-grained dolomite.
235.3-237	1.7	Dolomite, light to medium gray with black laminations, dense to fine-grained.
237-239	2.0	Dolomite, light to medium gray, fine-grained, faint lamination in lower portion; fractured.
239-239.5	0.5	Breccia, subangular fragments of fine-grained dolomite cemented by dark gray dolomite with very fine-grained pyrite.
239.5-240.3	0.8	Dolomite, medium to dark gray, fine-grained, fractured.
240.3-241.3	1.0	Dolomite, medium to dark gray, fine grained, laminated.
241.3-243	1.7	Dolomite, mottled, fine to medium-grained, fractured, fine-grained, black pyrite in fractures.
243-244.3	1.3	Dolomite, medium gray, fine-grained, siliceous.
244.3-246	1.7	Breccia, angular fragments of dense, medium gray dolomite cemented dolomite at 245-245.2 by dark gray to black, fine-grained vein of white dolomite.
246-248.1	2.1	Dolomite, coarse grained, medium to dark gray, with white vein dolomite.
248.1-249.9	1.8	Dolomite, dense, medium gray, with white blebs of dolomite.
249.9-250.4	0.5	Dolomite, medium gray, medium-grained.
250.4-250.9	0.5	Dolomite, medium gray, dense.
250.9-251.3	0.4	Breccia, angular fragments of dense, siliceous dolomite cemented by a buff dolomite (?).

251.3-254.0	2.7	Dolomite, medium gray, dense, siliceous, fractured, fractures filled with buff dolomite (?).
254-257	3.0	Chert, light gray to "white", porous. (core recovery poor).
257-260.8	3.8	Dolomite, mottled, buff to medium gray, dense, siliceous with calcite in fractures. (core recovery poor in upper part).
260.8-261.6	0.8	Breccia, angular fragments of dense, medium gray, siliceous dolomite cemented by a buff dolomite (?).
261.6-263	1.4	Dolomite, dark gray, medium-grained.
263-265	2.0	Dolomite, dark gray, fine-grained, fractures filled with white dolomite.
265-265.5	0.5	Breccia, subangular to subrounded, dark gray to black, fine-grained dolomite cemented by a light gray to "white", fine-grained dolomite.
265.5-266.4	0.9	Dolomite, coarse-grained, dark gray with blebs of white, coarse-grained dolomite.
266.4-272.1	5.7	Dolomite, light to medium gray, dense, fractured, fractures iron stained.
272.1-274.5	2.4	Dolomite, mottled, medium gray to black; black probably fine-grained pyrite.
274.5-279.7	5.2	Dolomite, medium to dark gray, dense to fine-grained, blebs of white dolomite. (core recovery poor in places).
279.7-280.9	1.2	Chert, light to medium-gray, dense.
280.9-282.6	1.7	Dolomite, light to medium gray dense to fine-grained, siliceous.
282.6-284.5	1.9	Dolomite, mottled, faintly laminated fine-grained.
284.5-286	1.5	Dolomite, light gray with buff lamination, dense, siliceous.
286-291.5	5.5	Dolomite, medium gray, fine-grained, laminated, black material chert.

291.5-294.5	3.0	Dolomite, light to medium gray, dense to fine-grained.
294.5-296	1.5	Dolomite, mottled, dark gray to buff, fine-grained.
296-298	2.0	Dolomite, medium gray, dense to fine-grained.
298-298.5	0.5	Dolomite, dense, light-gray, siliceous with black laminations.
298.5-302	3.5	Dolomite, medium gray, fine-grained.
302-304	2.0	Dolomite, light to medium gray, fine-grained to dense, siliceous, red iron stains in upper part, minor buff colored dolomite. (core recovery poor).
304-305	1.0	Dolomite, light gray to buff, mottled, fractured, dense.
305-307.8	2.8	Chert, dark gray, dense, fractured.
307.8-308.6	0.8	Dolomite, dark to medium gray, fine-grained, laminated.
308.6-310.6	2.0	Dolomite, mottled, gray, black, buff, medium to fine-grained.
310.6-311.1	0.5	Chert, dark gray, dense, fractured.
311.1-311.5	0.4	Dolomite, dark gray, coarse-grained.
311.5-312.5	1.0	Dolomite, dark gray, medium-grained.
312.5-313.5	1.0	Dolomite, medium gray to buff, dense to fine-grained.
313.5-319.0	5.5	Dolomite, mottled, dark gray to black, fine-grained, white blebs of dolomite, slightly buff colored 1 foot above bottom.
319-320.1	1.1	Dolomite, medium gray, fine-grained.
320.1-320.6	0.5	Dolomite, mottled, fine to medium-grained.
320.6-325.0	4.4	Dolomite, light gray, fine-grained.
325.0-330.5	5.5	Dolomite, medium to dark gray, fine-grained with black laminations.
330.5-332.5	2.0	Dolomite, light gray to buff, laminated fine-grained. (core recovery poor).
332.5-334.5	2.0	Dolomite, mottled, fine-grained.

334.5-338.1	3.5	Dolomite, medium, with black laminations, fine-grained; brecciated, top 0.2; siliceous.
338-340.7	2.7	Dolomite, dark to medium gray, fine-grained.
340.7-344.8	4.1	Dolomite, mottled, fine to medium grained, fractured.
344.8-347	2.2	Dolomite, medium gray, fine-grained, with black laminations.
347-347.3	0.3	Chert, black, bands or laminations in dolomite.
347.3-348.2	0.9	Dolomite, light gray, fine-grained to dense.
348.2-357.2	9.0	Dolomite, mottled and laminated fine-grained, medium to dark gray. (core recovery poor in places.)
357.2-360	2.8	Dolomite, medium to dark gray, fine-grained, laminated.
360-368	8.0	Dolomite, mottled, fine-grained, siliceous.
368-368.6	0.8	Dolomite, medium gray, fine-grained, cherty.
368.8-373	4.2	Dolomite, dark gray, fine-grained, faintly laminated.
373-378	5.0	Dolomite, medium gray, fine-grained with black chert.
378-383.5	6.5	Dolomite, medium to dark gray, fine-grained, laminated.
383.5-384.0	0.5	Chert, black, dense with some white dolomite, oolitic.
384-390.5	6.5	Dolomite, medium to dark gray, fine-grained, laminated.
390.5-395	4.5	Dolomite, dark gray, fine-grained, laminated, with small zones of black oolitic chert.
395-396	1.0	Chert, oolitic, oolites black, matrix medium gray, dense.
396-401	5.0	Dolomite, dark to medium gray, fine-grained, with small zones of black, oolitic chert and black, dense chert.

401-406	5.0	Dolomite, medium gray, fine-grained, faintly laminated, with white dolomite blebs.
406-413	7.0	Dolomite, medium to dark gray, fine grained, laminated; small breccia zone 412-412.5.
413-414.8	1.8	Dolomite, mottled, fine-grained, some of the black material may be fine-grained pyrite.
414.8-416	1.2	Dolomite, dark gray, dense to fine-grained.
416-421.8	5.8	Dolomite, dark gray, fine-grained, laminated.
421.8-427	5.2	Dolomite, medium gray, fine-grained, faintly laminated.
427-431.8	4.8	Dolomite, medium gray, fine-grained, with a few blebs of white dolomite; chert, black 428-428.1.
431.8-436	4.2	Dolomite, medium to dark gray, fine-grained, laminated.
436-442	6.0	Dolomite, medium to light gray, dense to fine-grained, blebs of white dolomite.
442-447.5	5.5	Dolomite, medium to dark gray, fine-grained to dense, laminated in places.
447.5-448	0.5	Chert, oolitic, black oolites, gray matrix.
448-458	10.0	Dolomite, fine to medium grained, dark gray; fractured, especially in lower part; white vein dolomite in fractures.