

INTERVAL SHEET

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VDMR Well No.: W-885

Date 9/23/63

Sample Interval: from 5' to 800'

PROP: Indian Creek #9

Total depth 800'

COMP: U. S. Steel

Oil Gas Water Exploratory

COUNTY: Russell

Cuttings Core Other

From-To	From-To	From-To	From-To	From-To
5.0-6.4	116.8-120.2	248.0-254.4	328.5-329.5	422.3-422.8
8.9-9.7	120.2-126.5	254.4-258.1	329.5-332.7	422.8-423.1
9.7-10.0	126.5-131.8	248.1-261.8	332.7-333.8	423.1-423.3
10.0-12.3	131.8-137.6	261.8-268.3	333.8-336.4	423.3-423.9
12.3-12.9	137.6-143.0	268.3-272.1	336.4-337.3	423.9-424.3
15.3-15.8	143.0-148.0	272.1-277.1	337.3-337.6	424.3-428.8
19.7-21.0	148.0-153.3	277.1-278.5	337.6-337.8	428.8-430.6
21.0-24.0	153.3-156.5	278.5-281.2	337.8-341.4	430.6-435.8
25.4-29.4	156.5-156.9	281.2-284.4	341.4-343.0	435.8-438.6
29.4-30.9	156.9-161.2	284.4-286.4	343.0-348.0	438.6-447.5
32.6-38.0	161.2-163.1	286.4-291.4	348.0-353.0	447.5-449.1
38.0-41.5	163.1-167.7	291.4-195.2	353.0-358.0	449.1-450.6
41.5-43.8	167.7-168.2	295.2-296.2	358.0-364.0	450.6-455.6
44.8-50.0	168.2-168.8	296.2-302.8	364.0-369.0	455.6-460.6
50.0-56.7	168.8-173.8	302.8-306.8	369.0-374.0	460.6-463.0
56.7-59.0	173.8-175.8	306.8-308.4	374.0-379.0	462.0-466.5
59.0-64.0	175.8-181.0	308.4-308.9	379.0-384.7	466.5-472.0
64.0-69.0	181.0-188.2	308.9-309.8	384.7-385.4	472.0-478.3
69.0-73.6	188.2-191.6	309.8-312.2	385.4-391.4	478.3-483.0
73.6-75.8	191.6-196.5	312.2-314.5	391.4-395.0	483.0-487.4
75.8-80.9	196.5-201.0	314.5-315.5	395.0-400.0	487.4-492.3
80.9-82.6	201.0-206.0	315.5-317.0	400.0-404.5	492.3-496.0
82.6-85.3	206.0-209.1	317.0-320.1	404.5-405.9	496.0-500.5
85.3-86.7	209.1-215.3	320.1-320.5	405.9-408.5	500.5-504.6
86.7-92.0	215.3-220.0	320.5-324.4	408.5-411.3	504.6-508.0
92.0-97.0	220.0-226.0	324.4-325.1	411.3-414.2	508.0-512.0
97.0-103.2	226.0-232.9	325.1-326.3	414.2-415.7	512.0-518.4
103.2-110.8	232.9-238.0	326.3-326.6	415.7-417.1	518.4-525.4
110.8-112.6	238.0-243.0	326.6-327.9	417.1-418.3	525.4-529.8
112.6-116.8	243.0-248.0	327.9-328.5	418.3-422.3	529.8-538.5

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COUNTY: Russell

Cuttings Core Other

From-To	From-To	From-To	From-To	From-To
538.5_544.0	670.3_671.2	789.5_794.5	-	-
544.0_549.0	671.2_673.8	794.5_800.0	-	-
549.0_553.3	673.8_678.8	-	-	-
553.3_554.0	678.8_680.8	-	-	-
554.0_559.0	680.8_684.3	-	-	-
559.0_564.0	684.3_686.7	-	-	-
564.0_569.0	686.7_689.7	-	-	-
569.0_574.0	689.7_694.0	-	-	-
574.0_579.0	694.0_695.9	-	-	-
579.0_584.0	695.9_700.9	-	-	-
584.0_589.0	700.9_706.0	-	-	-
589.0_594.7	706.0_712.1	-	-	-
594.7_598.5	712.1_713.7	-	-	-
598.5_601.0	713.7_718.7	-	-	-
601.0_607.1	718.7_721.0	-	-	-
607.1_608.8	721.0_727.5	-	-	-
608.8_613.8	727.5_732.3	-	-	-
613.8_618.8	732.3_736.8	-	-	-
618.8_623.8	736.8_740.9	-	-	-
623.8_628.0	740.9_745.9	-	-	-
628.0_628.8	745.9_749.3	-	-	-
628.8_630.4	749.3_754.3	-	-	-
630.4_635.4	754.3_759.3	-	-	-
635.4_640.4	759.3_764.3	-	-	-
640.4_645.4	764.3_768.4	-	-	-
645.4_651.4	768.4_772.9	-	-	-
651.4_657.7	772.9_774.5	-	-	-
657.7_660.6	774.5_779.5	-	-	-
660.6_665.6	779.5_784.5	-	-	-
665.6_670.3	784.5_789.5	-	-	-

County: Russell

VDMR Well #: W-885

Well: Indian Creek No. 9

Farm: Wm. Combou

Driller: Raymond Crisp (contractor - Southeastern Drilling Co.)

Location: Saltville Quadrangle
N. 9,167.75
E. 9,439.91

Elevation: 2205.28

Angle and bearing: Vertical

Total depth: 800 feet

Started drilling: 11/7/56 Finished drilling: 12/6/56

Sample description by: E. K. Rader, Virginia Division of Mineral Resources

References: Obtained from U. S. Steel

Log by R. K. Robbins

GEOLOGIC SUMMARY

Depth	Thickness	Formation (and remarks)
0.0-5.0	5.0	(overburden).
5.0-161.2	156.2	Beekmantown formation; fine- to medium grained, gray, mostly recrystalline dolomite.
161.2-800.0	638.8	Copper Ridge dolomite; fine- to medium grained, gray to dark gray recrystalline dolomite; thin sandstones and oolitic chert layers; one show of ZnS at 628.7.

Depth	Thickness	Description
0.0-5.0	5.0	Overburden
5.0-6.4	1.4	Dolomite, light gray to tan, mottled; fine-grained; black stylolites; white quartz at 6.3'; speckes of FeS.
6.4-8.9	2.5	No core
8.9-9.7	0.8	Dolomite, light to medium gray, tan, mottled; fine-grained; black stylolites; white quartz and dolomitic at 8.9'.
9.7-10.0	0.3	Dolomite, tan; fine-grained; weathered.
10.0-12.3	2.3	Dolomite, light gray; fine-to medium grained; sparse stylolites; scattered specks of FeS.
12.3-12.9	0.6	Dolomite, recrystalline; light to medium gray; coarse-grained; blebs of FeS; porous.
12.9-15.3	2.4	No core
15.3-15.8	0.5	Dolomite, light to medium gray; fine-grained; core broken.
15.8-19.7	3.9	No core
19.7-21.0	1.3	Dolomite, light gray; fine-grained; scattered FeS; chert laminae 20.8' to 21.0'.
21.0-24.0	3.0	Dolomite, medium gray to tan; fine-to medium grained; mottled; scattered FeS; recrystalline?.
24.0-25.4	1.4	No core
25.4-29.4	4.0	Dolomite, light to medium gray, tan, mottled; medium to fine-grained; white oolitic chert at 26.3'.
29.4-30.9	1.5	Dolomite, medium gray to tan, mottled; medium- to fine-grained.
30.9-32.6	1.7	No core
32.6-38.0	5.4	Dolomite, medium to dark gray, some tan mottling and tan bands; medium-grained; black wavy stylolites; blebs of white dolomite.

Depth	Thickness	Description
38.0-41.5	3.5	Dolomite, light to medium gray; medium to fine-grained.
41.5-43.8	2.3	Dolomite, recrystalline; medium gray; coarse-grained; porous; blebs of FeS; brown mottling.
43.8-44.8	1.0	No core
44.8-56.7	11.9	Dolomite, recrystalline; medium gray; coarse-grained; porous; crystals of dolomite in vuggs; no core 47.8-48.8; 52.4-56.2; chert at 46.3, 47.4, 49.2, 50.8.
56.7-59.0	2.3	Dolomite, recrystalline?; medium gray; medium-grained.
59.0-73.6	14.6	Dolomite, recrystalline?; light gray; medium-grained; scattered black stylolites; some tan mottling; no core 61.2-62.0; white chert 70.3', 70.6', 71.2', 71.9'.
73.6-75.8	2.2	Dolomite, recrystalline?; medium gray; fine- to medium-grained; fractured dark brown, chert 0.2 at 74.3'.
75.8-80.9	5.1	Dolomite, light to medium gray; fine- to medium-grained; black wavy stylolites; white chert at 77.2'; scattered specks of FeS.
80.9-82.6	1.7	Dolomite, medium gray; fine- to medium-grained; conglomerate 80.9 to 81.4.
82.6-85.3	2.7	Dolomite, light gray; fine-to medium-grained.
85.3-86.7	1.4	Dolomite, medium gray; medium-grained; scattered black FeS specks; black stylolites; mottled at bottom.
86.7-103.2	16.5	Dolomite, light to medium gray; fine- to medium grained; abundant black laminae; scattered blebs and specks of FeS; sparse white chert blebs; purple fluorite at 94.7'.
103.2-110.8	7.6	Dolomite, medium gray; fine- to medium grained; scattered FeS.
110.8-112.6	1.8	Dolomite, banded, medium and dark gray; fine-grained; conglomerate 0.2 at 111.0' scattered black stylolites.

Depth	Thickness	Description
112.6-120.2	7.6	Dolomite, medium gray; fine-grained; scattered black stylolites; conglomerate at 116.0; breccia 113.0 and 116.3; blebs of 113.6-114.6; sparse blebs of white dolomite and chert.
120.2-126.5	6.3	Dolomite, light gray; fine-grained; sparse black stylolites; abundant brass-yellow FeS.
126.5-131.8	5.3	Dolomite, medium gray; medium-grained; vuggy, FeS in Vuggs and along stylolites; white chert at 128.2; mottled near top; recrystalline.
131.8-137.6	5.8	Dolomite, light gray; fine-grained; with medium gray, fine-grained bands; chert breccia at 133.8; oolitic chert at 137.5; scattered FeS.
137.6-153.3	15.7	Dolomite, medium gray; fine- to medium grained, recrystalline; white chert 140.6, 149.1; very vuggy 149.0-153.3; scattered FeS.
153.3-156.5	3.2	Dolomite, light gray; fine-grained; scattered blebs and specks of FeS; chert grains in dolomite at 155.5'.
156.5-156.9	0.4	Dolomite, medium gray; fine-grained; scattered specks of FeS.
156.9-161.2	4.3	Dolomite, dark gray; fine-grained; silty; sparse black laminae.
161.2-163.1	1.9	Dolomite, medium gray; fine-grained; slightly silty.
163.1-167.7	4.6	Dolomite, light gray; fine-grained; lower 1.5' sandy; dense gray and white chert 163.1'-163.2', 163.6; scattered blebs of white dolomite and chert; FeS along fractures.
167.7-168.2	0.5	Chert, light gray; dense; with blebs and specks of FeS.
168.2-168.8	0.6	Dolomite, dark gray; medium-grained, recrystalline; with gray chert band; sandy; blebs of FeS.
168.8-173.8	5.0	Dolomite, light gray; fine-grained, recrystalline?; scattered FeS; chert 171.9'.

Depth	Thickness	Description
173.8-175.8	2.0	Dolomite, medium gray; fine-grained; sparse black laminae; black siltstone at top.
175.8-188.2	12.4	Dolomite, light gray; fine-grained; chert at 181.6'; sandy, coarse-grained, shaly 184.0' to 184.7'.
188.2-191.6	3.4	Dolomite, medium gray; fine-grained; with dark gray bands in top 1.5'; FeS finely disseminated; greenish black siltstone at bottom.
191.6-196.5	4.9	Dolomite, medium to dark gray; fine-grained, recrystalline?; chert blebs 192.2' to 192.5'.
195.5-209.1	12.6	Dolomite, medium gray; medium-grained; recrystalline; very vuggy 207' to 208'; scattered blebs of white dolomite.
209.1-215.3	6.2	Dolomite, light gray; fine-grained; lower 1 foot mottled, with blebs of FeS; sparse black stylolites.
215.3-226.0	10.7	Dolomite, medium gray; fine- to medium-grained, recrystalline?.
226.0-232.9	6.9	Dolomite, light to medium gray; medium to coarse grained, recrystalline; vuggy, some vuggs filled with white dolomite.
232.9-254.4	21.5	Dolomite, medium gray; medium- to fine-grained, recrystalline; chert at 241.0' to 241.2'; mottled; blebs of FeS; scattered blebs of white dolomite; lower two feet sandy.
243.3-258.1	3.7	Dolomite, light gray; fine-grained; very sparse black stylolites; sandy at top, with greenish shale.
258.1-261.8	3.7	Dolomite, light to medium gray; fine-grained; FeS in dark siltstone at 258.5'; lower 1 foot sandy.
261.8-268.3	6.5	Dolomite, light to medium gray; fine-grained, recrystalline; sparsely sandy, upper part, very sandy lower foot; large blebs of FeS 265.5' to 268.3'.

Depth	Thickness	Description
173.8-175.8	2.0	Dolomite, medium gray; fine-grained; sparse black laminae; black siltstone at top.
175.8-188.2	12.4	Dolomite, light gray; fine-grained; chert at 181.6'; sandy, coarse-grained, shaly 184.0' to 184.7'.
188.2-191.6	3.4	Dolomite, medium gray; fine-grained; with dark gray bands in top 1.5'; FeS finely disseminated; greenish black siltstone at bottom.
191.6-196.5	4.9	Dolomite, medium to dark gray; fine-grained, recrystalline?; chert blebs 192.2' to 192.5'.
195.5-209.1	12.6	Dolomite, medium gray; medium-grained; recrystalline; very vuggy 207' to 208'; scattered blebs of white dolomite.
209.1-215.3	6.2	Dolomite, light gray; fine-grained; lower 1 foot mottled, with blebs of FeS; sparse black stylolites.
215.3-226.0	10.7	Dolomite, medium gray; fine- to medium-grained, recrystalline?.
226.0-232.9	6.9	Dolomite, light to medium gray; medium to coarse grained, recrystalline; vuggy, some vuggs jilled with white dolomite.
232.9-254.4	21.5	Dolomite, medium gray; medium- to fine-grained, recrystalline; chert at 241.0' to 241.2'; mottled; blebs of FeS; scattered blebs of white dolomite; lower two feet sandy.
243.3 254.4-258.1	3.7	Dolomite, light gray; fine-grained; very sparse black stylolites; sandy at top, with greenish shale.
258.1-261.8	3.7	Dolomite, light to medium gray; fine-grained; FeS in dark siltstone at 258.5'; lower 1 foot sandy.
261.8-268.3	6.5	Dolomite, light to medium gray; fine-grained, recrystalline; sparsely sandy, upper part, very sandy lower foot; large blebs of FeS 265.5' to 268.3'.

Depth	Thickness	Description
268.3-272.1	3.8	Sandstone, dolomitic, light gray; fine- to medium-grained; thick FeS stylolite at bottom.
272.1-277.1	5.0	Dolomite, light gray; fine-grained, recrystalline; scattered sand grains and FeS blebs; siltstone band at 272.6'; sparse black stylolites.
277.1-278.5	1.4	Sandstone, dolomitic; light gray; fine-grained; conglomeratic, pebbles dolomite.
278.5-281.2	2.7	Dolomite and sandstone alternating in small bands; light gray; fine-grained; dark shale at 278.7; oolitic chert at 278.8.
281.2-284.4	3.2	Dolomite, medium to dark gray; fine-grained; with black stylolites and siltstone bands; scattered FeS.
284.4-286.4	2.0	Dolomite, dark gray; fine-grained, recrystalline; "salt and pepper" appearance.
286.4-291.4	5.0	Dolomite, medium gray; fine-grained; with interbedded sandstone to 288; dark shale bands 289' to 291.4'.
291.4-295.2	3.8	Dolomite, fine-grained, medium-gray; swirly laminae, black shale bands.
295.2-296.2	1.0	Sandstone, dolomitic, brownish gray; fine-grained.
296.2-302.8	6.6	Dolomite, medium to dark gray; fine-grained; black stylolites; sparse shale bands, sandy 300.7-301.2 and 302.4-302.8; lower foot vuggy.
302.8-306.8	4.0	Dolomite, light to medium gray; fine-grained, recrystalline?; sparse dark shale bands; black stylolites.
306.8-308.4	1.6	Dolomite, mottled; fine-grained; black-wavy laminae.
308.4-308.9	0.5	Sandstone and interbedded dark shale.
308.9-309.8	0.9	Dolomite, medium gray; fine-grained; sparse dark stylolites.

Depth	Thickness	Description
309.8-312.2	2.4	Dolomite, dark gray, mottled; fine-grained; dark stylolites.
312.2-314.5	2.3	Dolomite, light gray; fine-grained; sparse blebs of FeS; lower 0.2' dark silty dolomite.
314.5-315.5	1.0	Sandstone or sandy dolomite, light gray; fine-grained.
315.5-317.0	1.5	Dolomite, medium gray; fine-grained; 0.1 dark gray silty dolomite at top; scattered FeS.
317-320.1	3.1	Dolomite, medium gray; fine-grained, recrystalline; gray and white chert at 317.1; 317.5', and 319.2'; blebs of FeS.
320.1-320.5	0.4	Dolomite, black; fine-grained; silty.
320.5-324.4	3.9	Dolomite, medium gray; fine-grained; dark laminae; black shale bands.
324.4-325.1	0.7	Dolomite, light gray; fine-grained; sandy.
325.1-326.3	1.2	Sandstone-dolomitic, light gray; fine-grained.
326.3-326.6	0.3	Chert oolitic, light gray; chalky.
326.6-327.9	1.3	Sandstone, light gray; fine-grained.
327.9-328.5	0.6	Dolomite, medium gray; fine-grained; sandy.
328.5-329.5	1.0	Sandstone, dolomitic; light gray; fine-grained.
329.5-332.7	3.2	Dolomite, light gray; fine-grained; sandy 330.5-332.7; black shale 0.1' at top; gray chert at 331.3'; black stylolites with FeS and black shale 331.4' to 332.4'.
332.7-333.8	1.1	Dolomite, light gray; fine- to medium-grained, recrystalline; 0.1' black shale at base.
333.8-336.4	2.6	Dolomite, light gray; fine-grained; sandy layers throughout.

Depth	Thickness	Description
336.4-337.3	0.9	Sandstone, dolomitic; light gray; fine-grained; some oolitic chert layers.
337.3-337.6	0.3	Chert oolitic, light gray, chalky.
337.6-337.8	0.2	Sandstone dolomitic; light gray; fine-grained.
337.8-341.4	3.6	Dolomite, light-medium gray; fine-to medium grained; abundant black shale band in lower 2 feet; lower 0.5' sandy.
341.4-343.0	1.6	Sandstone, dolomitic or sandy dolomite, light gray; fine-grained.
343.0-384.7	41.7	Dolomite, medium to dark gray; fine-to medium grained; abundant black or dark shale; pyritic stylolites; conglomeratic at 351.6' to 352.2', 364.0 to 364.8', and 373.8' to 374.2'; abundant fractures, high angle in lower half; sandy 379.1' to 379.4' and 384.5; almost dolomitic siltstone 382.6' to 384.7'.
384.7-385.4	0.7	Sandstone, dolomitic or sandy dolomite; light gray; fine-grained.
385.4-391.4	6.0	Dolomite, medium gray; fine-grained; sandy in upper 1.5' and lower 1.0'; chert at 389.4' to 389.5'; black shale bands 390.0' to 390.9'; blebs and crystals of FeS.
391.4-404.5	13.1	Dolomite, light to medium gray; fine-to medium-grained; sparse pyritic stylolites; blebs and crystals of FeS; black shale bands and laminae at base.
404.5-405.9	1.4	Dolomite, sandy; light gray; fine-to medium grained; abundant FeS.
405.9-408.5	2.6	Sandstone, dolomitic; light gray; fine-grained; 0.5' of dark silty dolomite at base.
408.5-411.3	2.8	Dolomite, sandy; light gray; fine-grained, recrystalline.
411.3-414.2	2.9	Sandstone, dolomitic; light gray; fine-grained.

Depth	Thickness	Description
414.2-415.7	1.5	Dolomite, light to medium gray; fine-grained; sandy at top.
415.7-417.1	1.4	Dolomite, medium gray; medium-grained, recrystalline; with blebs of white dolomite; blue-gray and white chert at 416.7.
417.1-418.3	1.2	Dolomite, light to medium gray; fine-grained.
418.3-422.3	4.0	Dolomite, light to medium gray; fine-to medium grained, recrystalline; FeS throughout; blebs of white dolomite 420.7-421.7; sandy at base.
422.3-422.8	0.5	Chert, oolitic; gray.
422.8-423.1	0.3	Dolomite, medium gray; medium-grained, recrystalline; white dolomite bleb; FeS.
423.1-423.3	0.2	Chert breccia, oolitic chert fragments with an oolitic chert cement.
423.3-423.9	0.6	Sandstone, dolomitic; light gray; with oolitic chert blebs; FeS.
423.9-424.3	0.4	Chert, oolitic, light brownish gray.
424.3-428.8	4.5	Dolomite, light gray; medium-grained, recrystalline; sandy 424.3' to 424.8'; blebs of white dolomite; FeS along fractures and in blebs.
428.8-430.6	1.8	Dolomite, light gray; fine-grained; with FeS.
430.6-435.8	5.2	Dolomite, medium-gray; fine-grained; recrystalline sparse pyritic stylolites.
435.8-438.6	2.8	Dolomite, medium to dark gray; fine-to medium grained, recrystalline; slightly sandy; abundant black stylolites; conglomerate 437.4' to 438.6'.
438.6-447.5	8.9	Dolomite, dark gray; fine-grained; silty; dark gray silty bands; black stylolites; sparse blebs of white dolomite.
447.5-449.1	1.6	Dolomite, medium gray; fine-grained, recrystalline; specks of FeS.

Depth	Thickness	Description
449.1-450.6	1.5	Dolomite, light to medium gray; fine-grained, recrystalline; speck of FeS.
450.6-460.6	10.0	Dolomite, medium to dark gray; fine-to medium grained; recrystalline 450.7-451.2; oolitic chert bands 451.9' to 452.2'; sandstone bands 452.2' to 452.8'; conglomerate 453.1 to 453.9; abundant black shale bands 456' to 460.6'.
460.6-463.0	2.4	Dolomite, light gray; fine-grained, recrystalline.
463.0-466.5	3.5	Dolomite, dark gray; fine-grained, recrystalline.
466.5-478.3	11.8	Dolomite, light gray; fine-grained, mottled with white dolomite 473.1' to 475.6'; sparse dark shale partings.
478.3-487.4	9.1	Dolomite; medium gray; fine-grained, abundant dark shale bands; black stylolites; brecciated at 481.0' to 481.8'.
487.4-492.3	4.9	Dolomite, light gray; fine-grained, recrystalline; very sandy 489.2'-492.3'; pyritic stylolites; blebs of FeS; lower 1 foot conglomeratic.
492.3-500.5	8.2	Dolomite, light gray; fine-grained; very sandy 493.1' to 495.2'; sparse thin shale bands; sparse blebs of white dolomite near bottom with FeS.
500.5-504.6	4.1	Dolomite, medium gray; fine-grained; black shale bands.
504.6-512.0	7.4	Dolomite, light gray; fine-grained, sparse sand throughout; conglomeratic and sandy 506.9' to 507.6; scattered FeS.
512.0-518.4	6.4	Dolomite, dark gray; fine-to medium-grained; with black shale bands and stylolites; lower 1 foot has "salt and pepper" appearance.
518.4-525.4	7.0	Dolomite, light gray; fine-grained; scattered, thin dark shale bands.

Depth	Thickness	Description
525.4-529.8	4.4	Dolomite, medium to dark gray; fine- to medium grained; abundant dark shale band in upper 2/3; lower foot sandy; FeS throughout.
529.8-538.5	8.7	Sandstone, dolomitic; light gray; fine-grained; upper foot silty.
538.5-544.0	5.5	Dolomite, light gray; fine- to medium grained; black shale bands at top; thin oolitic chert bands in lower foot; sparse blebs and stylolites of FeS.
544.0-553.3	9.3	Dolomite, medium to dark gray; fine-grained; abundant black shale bands and stylolites; conglomerate 546.9-547.3.
553.3-554.0	0.7	Chert, oolitic; light brownish gray.
554.0-594.7	40.7	Dolomite, dark gray; fine-grained; abundant thin black shale bands and stylolites; thin conglomerate at top; oolitic chert 559.6; conglomeratic at 561.3' to 562.5, 566.7' to 568.0', and 578.2-578.7.
594.7-598.5	3.8	Dolomite, light gray; fine-grained.
598.5-601.0	2.5	Dolomite, light gray; fine-grained; with gray dense and oolitic chert blebs.
601.0-607.1	6.1	Dolomite, medium gray; fine-grained; with black shale bands and stylolites.
607.1-608.8	1.7	Dolomite, conglomerate; fragments fine-grained, gray, dolomite; in dark to medium gray matrix; matrix recrystalline and oolitic.
608.8-628.0	19.2	Dolomite, dark gray; fine- to medium grained; sparse black shale bands; oolitic chert at 613.4, 623.1, and 623.5; oolitic chert breccia 624.6 to 624.8, 625.1' to 625.3', 625.8' to 626.0', and 627.1' to 627.3'.
628.0-628.8	0.8	Dolomite, medium gray; fine-grained. <u>MINERALIZATION:</u> One irregular bleb of pale yellow sphalerite at 628.7.
628.8-630.4	1.6	Dolomite, dark gray; medium-grained, recrystalline; sparse white dolomite blebs; FeS.

Depth	Thickness	Description
630.4-651.4	21.0	Dolomite, dark gray; fine-to medium grained; with black shale bands and stylolites; mottled; sparse blebs of FeS.
651.4-657.7	6.3	Dolomite, medium gray; fine-grained, recrystalline; abundant black wavy stylolites.
657.7-660.6	2.9	Dolomite, medium gray; fine-grained; abundant black laminae.
660.6-670.3	9.7	Dolomite, medium gray; medium-to fine-grained, recrystalline; with some dark gray silty bands; <i>663' purple glauconite.</i>
670.3-671.2	0.9	Chert conglomerate; light gray; blebs of FeS.
671.2-673.8	2.6	Dolomite, light gray; fine-grained.
673.8-680.8	7.0	Dolomite, light to medium gray; medium grained, recrystalline; sparse crystals and blebs of FeS.
680.8-684.3	3.5	Dolomite, medium gray; fine-to medium-grained; abundant dark laminae.
684.3-686.7	2.4	Dolomite, light gray; fine-grained; recrystalline; sparse crystals of FeS.
686.7-689.7	3.0	Dolomite, light gray; fine-grained; sparse crystals of FeS.
689.7-694.0	4.3	Dolomite, light gray; coarse-grained, recrystalline; vuggy; pyritic stylolites and crystals of FeS.
694.0-695.9	1.9	Dolomite, light gray; fine-grained.
695.9-712.1	16.2	Dolomite, medium gray; medium-grained, recrystalline; pyritic stylolites; FeS blebs at 702.3.
712.1-713.7	1.6	Dolomite, light gray; fine-grained.
713.7-721.0	7.3	Dolomite, medium to dark gray; fine-grained, recrystalline; black laminae 719' to 721'.
721.0-727.5	6.5	Dolomite, dark gray; fine-to medium-grained; abundant black shale band and stylolites.

Depth	Thickness	Description
727.5-732.3	4.8	Dolomite, dark gray; fine-to medium-grained, recrystalline; conglomerate at 731.9'.
732.3-736.8	4.5	Dolomite, medium gray; fine-grained; abundant black laminae 732.8' to 733.6'.
736.8-740.9	4.1	Dolomite, medium to dark gray; medium-grained, recrystalline; upper two feet oolitic; sparse chert nodules 738'-738.6'; pyritic stylolites.
740.9-749.3	8.4	Dolomite, light gray; fine-grained, recrystalline; very abundant pyritic stylolites; sparse thin black shale bands.
749.3-768.4	19.1	Dolomite, dark gray; fine-grained, recrystalline; sparse fractures with white dolomite; abundant black shale bands; 2.5' core loss.
768.4-772.9	4.5	Dolomite, dark gray; fine-grained; abundant black shale bands; pyritic stylolites in lower 1.5'.
772.9-774.5	1.6	Dolomite, conglomerate; mottled medium to light gray.
774.5-800.0	25.5	Dolomite, medium to dark gray; fine-grained; abundant black shale bands and pyritic stylolites, core loss 10.0'.

DIAMOND DRILL HOLE RECORD

INDIAN CREEK NO. 9

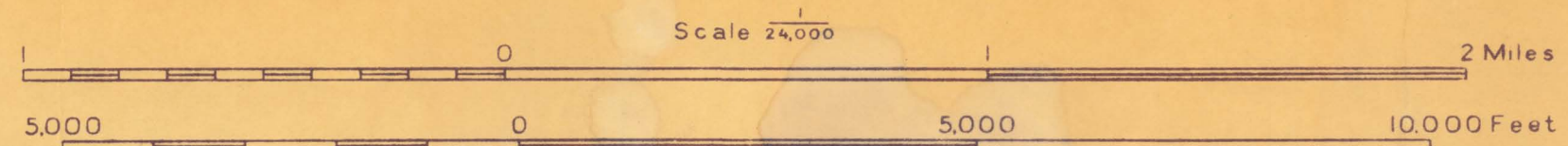
Location: N 9,167.75 E 9,439.91
Elevation: 2205.28
Total depth: 800.0
Angle and bearing: Vertical
Core size: AX
Started drilling: 11/7/56 Finished drilling: 12/6/56
Drill contractor: Southeastern Drilling Co. Driller: Raymond Crisp
Farm: Wm. Combow
Logged by: R. K. Robbins
Classification: Trace

<u>Depth</u>	<u>Thickness</u>	<u>Formation</u>
0.0 - 5.0	5.0	(Overburden)
5.0 - 161.2	156.2	Beekmantown fm. † fn.-med. grn., gray, rexled dol.
161.2 - 800.0	638.8	Copper Ridge dol., one show of ZnS, dol. generally fn.-med. grn. or rexled, thin congl., sandstone, and colitic chert layers.

Advance sheet.
Subject to correction.



Albert Pike, District Engineer
Compiled by U. S. Geological Survey from aerial photographs
Control by U. S. Geological Survey and U. S. Coast and Geodetic Survey
Field examination in 1932



Datum is mean sea level

APPROXIMATE MEAN DECLINATION, 1935

PRINTED BY U. S. GEOLOGICAL SURVEY
Polyconic projection, 1927 North American datum
10,000 foot grid based on Virginia South
rectangular coordinate system

Ridge line
Trail
Sink

SALTVILLE, VA.
212-NE

Color Edition Exhausted