

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #1

Location: In east-west trending draw on west bluff of White River in SW $\frac{1}{4}$ sec. 5
T 14N R 8W, Stone County, Arkansas.

Geologist: Holbrook and Sterling

Method: Hand level

Date: April 24, 1958

Datum: Sea level

Interval	Formation	Thickness	Remarks
560 - 620	Boone chert <i>formation</i>	60	Boone float to top of hill
552 - 560	Penters chert and Basal Mississippian <i>Symmer</i> sand	8	Float only
549 - 552	Lafferty limestone	3	Exposed in adit
537 - 549	St. Clair limestone	12	" " "
535 - 537	Cason shale	2	" " "
456 - 535	Fernvale limestone	79	Sampled for analysis (#1-2) <i>LAB NO. 2053</i>
430 - 456	Kimmswick limestone	26	Sampled for analysis (#1-1) <i>LAB NO. 2053</i>
398*- 430	Plattin limestone	32	

*Elevation of B.M. #1 located at bottom of draw

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #2

Location: South side of White River, NW $\frac{1}{4}$ of sec. 5, T 14N, R 8W, Stone County,
on bluff directly across from Penters Bluff.

Geologist: Browne and Sterling

Method: Hand level

Date: April 23, 1958

Datum: Sea level

Interval	Formation	Thickness	Remarks
556 - 680	Boone chert <i>formation</i>	124.0'	Float
550 - 556	Lafferty Limestone	6.0'	Float and scattered outcrops
543 - 550	St. Clair Limestone	7.0'	Float and scattered outcrops
463 - 543	Fernvale Limestone	80.0'	
432 - 463	Kimmswick Limestone	31.0'	
404*-432	Plattin Limestone	28.0'	

*Elevation of bench mark #2 located at bottom of draw.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #3

Location: On north side of a stream tributary to White River about 3500 feet upstream from the river in the NW $\frac{1}{4}$ sec. 6, T 14N, R 8W, Stone County, Arkansas.

Geologist: Holbrook and Wise

Method: Hand level
Date: April 23, 1958

Datum: Sea level

Interval	Formation	Thickness	Remarks
487 - 651	Boone chert <i>formation</i>	164	Float only
482 - 487	St. Joe limestone	5	
475 - 482	Cason shale (?)	7	Covered interval
431 - 475	Fernvale limestone	44	
409 - 431	Kimmswick limestone	22	
404*- 409	Plattin limestone	5	

*Elevation of B.M. #3 in creek bottom.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #4

Location: Mouth of a creek tributary to the White River in the NE $\frac{1}{4}$ sec. 6, T 14N
R 8W, Stone County, Arkansas.

Geologist: Holbrook and Wise

Method: Hand level

Date: April 23, 1958

Datum: Sea level

Interval	Formation	Thickness	Remarks
547 - 664	Boone chert <i>formation</i>	117	Boone chert float
539 - 547	St. Clair Limestone	8	
532 - 539	Cason shale (?)	7	Concealed
439 - 532	Fernvale limestone	93	
408 - 439	Kimmswick limestone	31	
295*-408	Plattin limestone	113	

*Elevation of B.M. #1 located at the bottom of the section in the creek bed

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #5

Location: South side of White River, SW $\frac{1}{4}$ sec. 31, T 15N, R 9W, Stone County, Arkansas.

Geologist: Wise, Browne, and Sterling

Method: Hand level

Date: April 22, 1958

Datum: Sea level

Interval	Formation	Thickness	Remarks
521 - 670	Boone chert <i>formation</i>	149'	Float
512 - 521	Boone chert <i>formation</i> (?)	9.0'	Concealed interval
500 - 512	Lafferty limestone	12.0'	
477 - 500	St. Clair limestone	23.0'	Scattered outcrops and float
467 - 477	Cason shale	10.0'	
393 - 467	Fernvale limestone	74.0'	Sampled for analysis (#5-2) <i>LAB NO. 2053</i>
369 - 393	Kimmswick limestone	24.0'	Sampled for analysis (#5-1) <i>LAB NO. 2053</i>
300*- 369	Plattin limestone	69.0'	

*Elevation of bench mark #5 located at the base of measured section.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #6

Location: West side of a draw tributary to the White River in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5,
T 14N, R 8W, Stone County, Arkansas.

Geologist: Holbrook and Wise

Method: Hand Level

Date: April 25, 1958

Datum: Sea Level

Interval	Formation	Thickness	Remarks
608 - 670	Boone ^{formation} Chert	62	Float only
571 - 608	Lafferty Limestone	37	Scattered outcrops
558 - 571	St. Clair Limestone	13	Scattered outcrops
478 - 558	Fernvale Limestone	80	Upper contact obscured
447 - 478	Kimmswick Limestone	31	
426*-447	Plattin Limestone	21	

*Elevation of BM #6 located at the bottom of the draw.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #7

Location: On east slope of Wilson Creek 3/4 mile upstream from White River in NE corner sec. 6, T 14N, R 8W, IZARD County, Arkansas

Geologist: Holbrook and Browne Method: Hand level

Datum: Sea Level Date: May 7, 1958

Interval	Formation	Thickness	Remarks
683 - 752	Boone ^{formation} chert	69	Boone chert float to top of hill one six-inch St. Joe limestone outcrop
657 - 683	Lafferty limestone	26	Float only
620 - 657	St. Clair limestone	37	Mostly outcrops of the coarse-grained variety
611 - 620	Cason shale	9	Massive fine-grained sandstone ledge
542 - 611	Fernvale limestone	69	Outcrops
513 - 542	Kimmswick limestone	29	Outcrops
315*- 513	Plattin limestone	198	Outcrops

* Elevation of bed of Wilson Creek at base of section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #8

Location: East slope of mouth of Wilson Creek, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T 14N, R 8W, Izard County, Arkansas

Geologist: Holbrook and Browne

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness	Remarks
541 - 662	Boone ^{formation} chert	121	Chert float
518 - 541	Lafferty limestone	23	Float and outcrops
489 - 518	St. Clair limestone	29	Outcrops
408 - 489	Fernvale limestone	81	Outcrops
³⁷⁵ 315 - 408	Kimmswick limestone	33	Outcrops
308*- 375	Plattin limestone	67	Outcrops

* Elevation of Railroad tracks at Wilson Creek trestle (Base of Measured Section)

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #9

Location: West side of mouth of Lafferty Hollow, SW $\frac{1}{4}$, sec. 5, T 14N, R 8W,
Izard County, Arkansas.

Geologists: Holbrook and Brown

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness (ft.')	Remarks
564 - 649	Boone chert	85'	Boone chert float to top of hill
559 - 564	St. Joe limestone	5'	Outcrop
545 - 559	(Concealed)	14'	Basal Mississippian sand and Boone chert float
537 - 545	Lafferty limestone	8'	Outcrop (lower 3' (exposed))
514 - 537	St. Clair limestone	23'	Outcrop
503 - 514	(Concealed)	11'	St. Clair & Cason float
435 - 503	Fernvale limestone	68'	Outcrop
406 - 435	Kimmswick limestone	29'	Outcrop
309*-406	Plattin limestone	97'	Outcrop

* Elevation of Railroad track at point nearest measured section.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #10

Location: The point of a hill on east side of Lafferty Hollow, 1/2 mile upstream from mouth, SE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 5, T 14N, R 8W, IZARD County, Arkansas.

Geologist: Holbrook and Browne

Method: Hand level

Datum: Sea level

Date: May 8, 1958

Interval	Formation	Thickness	Remarks
533 - 683	Boone ^{formation} chert	150	Mostly chert float to top of hill, some scattered St. Joe limestone float
521 - 533	Lafferty limestone	12	scattered outcrop
504 - 521	St. Clair limestone	17	Outcrops
492 - 504	Cason shale	12	Float and outcrops
429 - 492	Fernvale limestone	63	Outcrops
405 - 429	Kimmswick limestone	24	Outcrops
342*- 405	Plattin limestone	63	Outcrops

* Elevation of point at east of hill (Base of Measured Section)

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #11

Location: On east side of Lafferty Hollow, about $1\frac{1}{2}$ miles from mouth in SW $\frac{1}{4}$ sec. 32, T 15W, R 8W, Izard County, Arkansas.

Geologist: Holbrook and Browne

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness	Remarks
631 - 720	Boone ^{<i>formation</i>} chert	39	Boone chert float to top of hill
675 - 681	Lafferty limestone	6'	Scattered outcrops
663 - 675	St. Clair limestone	12'	Outcrop
640 - 563	St. Clair (?) Cason shale (?)	23'	St. Clair and Cason float
571 - 640	Fernvale limestone	69'	Upper contact indefinite
542 - 571	Kimmswick limestone	29'	Outcrops
460*-542	Plattin limestone	82'	Outcrops

* Elevation of gravel road at bottom of Hollow

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #12

Location: On north bluff of White River about halfway between mouths of Love Hollow and Lafferty Hollow in $SE\frac{1}{4}$ $SE\frac{1}{4}$ sec. 5, T 14N, R 8W, IZARD County, Arkansas.

Geologist: Holbrook and Browne

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness (ft.)	Remarks
626 - 680	<i>formation</i> Boone chert <i>Salem</i>) Basal Mississippian sand) St. Clair limestone)	54'	Boone chert, basal Mississippian Sand and St. Clair limestone Float to top of hill
555 - 626	Fernvale limestone	71'	Upper cont. not exposed
519 - 555	Kimmswick limestone	36'	Outcrop
312 - 519	Plattin limestone	207'	Outcrop
303 - 312	Joachim dolomite	4'	Outcrop

WHITE RIVER PROJECT - MEASURED SECTION #13

Location: North side of a road that enters Love Hollow about 1 mile upstream from the mouth of the hollow, in NE $\frac{1}{4}$ NW $\frac{1}{4}$, sec. 4, T 14N, R 8W, Isard County, Arkansas.

Geologist: Wise, Sterling and Mott

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness	Remarks
664 - 740	Boone chert <i>formation</i>	76	Boone chert float to top of hill
653 - 664	St. Joe limestone	11'	Massive weathered block
577 - 653	Fernvale limestone	76'	Scattered outcrop
546 - 577	Kimmswick limestone	31'	Scattered outcrop
515*-546	Plattin limestone	31'	In plattin from B.M. in old road

* Elevation of bench mark at the bottom of Love Hollow (Base of the measured section)

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #14

Location: Love Hollow Quarry of the Arkansas Limestone Company in the SE $\frac{1}{4}$ of sec. 4, T 14N, R 8W, IZARD County, Arkansas.

Geologist: Mott, Wise and Sterling

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness	Remarks
755 - 770	Lafferty limestone	15	
731 - 755	St. Clair limestone	24'	(see note)
720 - 731	Cason shale	11'	
635 - 720	Fernvale limestone	85'	
605 - ⁶³⁵ 645	Kimmswick limestone	30'	

Note: The thicknesses of the Fernvale and Kimmswick limestone formations were furnished by the Arkansas Limestone Company. The other formations were measured from exposures in the overburden back of the quarry face.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #15

Location: North end of Penters Bluff (up telephone line right of way) NE $\frac{1}{4}$
sec. 9, R 8W, T 14N, IZARD County, Arkansas.

Geologist: Mott, Sterling and Wise

Method: Hand level

Datum: Sea level

Date: May 6, 1958

Interval	Formation	Thickness	Remarks
747 - 779	Boone chert <i>formation</i>	32'	Float
738 - 747	Lafferty limestone	9'	Massive beds
716 - 738	St. Clair limestone	^{20'} 12'	Massive beds
714 - 716	Cason shale (?)	2'	Float
575 - 714	Fernvale limestone	139'	Outcrops
544 - 575	Kimmswick limestone	31'	Good massive outcrops
341 - 544	Plattin limestone	203'	Outcrops
? 310*- 341	Joachim dolomite	31'	In O.F. L.O.J. at track level

* Elevation of Railroad track at the base of the section.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #16

Location: South slope of Alexander Hill, SW $\frac{1}{4}$ of sec. 10, T 14N, R 8W
Geologist: Mott, Sterling and Wise Method: Hand level
Datum: Sea level Date: May 7, 1958

Interval	Formation	Thickness	Remarks
713 - 765	Boone chert <i>formation</i>	52'	Boone float and scattered outcrops
706 - 713	<i>Sylamore</i> Basal Mississippian sand	7'	Outcrop
687 - 706	Penters chert	19'	Float and scattered outcrops
685 - 687	Lafferty limestone	2'	Outcrop
678 - 685	St. Clair limestone	7'	Outcrop
672 - 678	Covered interval	6'	Cason shale and St. Clair limestone float
563 - 672	Fernvale limestone	109'	Outcrops
534 - 563	Kimmswick limestone	29'	Outcrops

Note: Approximately the same location as the core drill hole of the White River Limestone Products Company

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #17

Location: On east slope of West Lafferty Creek at north line of sec. 10, T 14N
R 8W.

Geologist: Browne and Sterling Method: Hand level

Datum: Sea level Date: May 14, 1958

Interval	Formation	Thickness	Remarks
717 - 720	Lafferty limestone	3.0'	Boone chert, Basal Mississippian sand, Penters chert and Lafferty lime- stone float, no outcrops
704 - 717	St. Clair limestone	13.0'	Dense member
703 - 704	Cason shale	1.0'	
622 - 703	Fernvale limestone	81.0'	Outcrops
586 - 622	Kimmswick limestone	36.0'	Outcrops
310*- 586	Plattin limestone	276.0'	Outcrops

* Elevation of West Lafferty creek at base of measured section.

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #18

Location: East slope of Johnson Hollow NW $\frac{1}{4}$ sec. 3, T 14N, R 8W, IZARD County, Arkansas.

Geologist: Wise, Mott and Sterling

Method: Hand level

Datum: Sea level

Date: May 7, 1958

Interval	Formation	Thickness	Remarks
657 - 710	Boone chert <i>formation</i>	53'	Float and scattered outcrops to top of hill
594 - 657	Lafferty limestone	63'	Thin to massive beds
568 - 594	St. Clair limestone	26'	Massive outcrops
563 - 568	Cason shale	5'	Outcrop
474 - 563	Fernvale limestone	89'	Massive outcrops
440 - 474	Kimmswick limestone	34'	Massive outcrop
400*- 440	Plattin limestone	40'	Outcrops

* Elevation of the creek bottom at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #19

Location: 1,000 feet up Wilson Creek from Railroad West side sec. 6, T 14N,
R 8W.

Geologist: Holbrook and Sterling

Method: Hand level

Datum: Sea level

Date: May 22, 1958

Interval	Formation	Thickness	Remarks
645 - 703	Boone limestone <i>formation</i>	58'	float
644 - 645	St. Joe limestone	1'	Outcrops
642 - 644	Lafferty limestone	2'	Outcrops
616 - 642	St. Clair limestone	26'	Outcrops
611 - 616	Concealed interval	5'	Cason shale and St. Clair limestone float
543 - 611	Fernvale limestone	68'	Outcrops
521 - 543	Kimmswick limestone	22'	Outcrops
332 - 521	Plattin limestone	189'	Outcrops
295*- 332	Joachim dolomite	37'	Outcrops

* Elevation of Wilson creek at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #20

Location: West slope of Wilson Creek about 7800' upstream from Railroad
SW $\frac{1}{4}$ sec. 31, T. 15N, R 8W, IZARD County, Arkansas

Geologist: Holbrook and Sterling Method: Hand level

Datum : Sea level Date: May 20, 1958

Interval	Formation	Thickness	Remarks
711 - 795	Boone chert <i>Formation</i>	84'	Float to top of hill
690 - 711	St. Clair limestone	21'	Float and scattered outcrops
599 - 690	Fernvale limestone	91'	Outcrops
571 - 599	Kimmswick limestone	28'	Outcrops
350*- 571	Plattin limestone	221'	Outcrops

* Elevation of Wilson Creek at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #21

Location: At Wolford Quarry, sec. 1, T 14N, R 8W, IZARD County, Arkansas.

Geologist: Holbrook and Sterling

Method: Hand level

Datum: Sea level

Date: May 22, 1958

Interval	Formation	Thickness	Remarks
481 - 663	Boone chert <i>formation</i>	182'	Outcrops
475 - 481	St. Joe limestone	6'	Outcrops
458 - 475	Lafferty limestone	17'	Outcrops
431 - 458	St. Clair limestone	27'	Outcrops
357 - 431	Fernvale limestone	74	Outcrops (sample 21-2)
331 - 357	Kimmswick limestone	26'	Outcrops (sample 21-1)
312*- 331	Plattin limestone	19'	Outcrops

* Elevation of the Railroad track at the base of the section

NOTE: The thicknesses of all formations above the Fernvale limestone are expressive due to a dip slope.

GUION SHEET

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #22

Location: Nose of hill, NE $\frac{1}{4}$ sec. 36, T 15 N, R 9 W, Izard County, Arkansas
Geologist: Wise and Browne Method: Hand level and aneroid
Datum: Sea level Date: May 5, 1958

Interval	Formation	Thickness	Remarks
679 - 760	Boone formation	81	Chert float
653 - 679	Cason shale	26	Massive buff sandstone
595 - 653	Fernvale limestone	58	Scattered outcrops
573 - 595	Kimmswick limestone	22	Massive beds
527* - 573	Plattin limestone	46	Massive beds

*Elevation of creek bed at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #23

Location: Bluff just southeast of mouth of Holmes Hollow on Railroad SW $\frac{1}{4}$ sec. 35, T 14N, R 8W, IZARD County, Arkansas.

Geologist: Wise and Browne

Method: Hand level

Datum: Sea level

Date: May 21, 1958

Interval	Formation	Thickness	Remarks
518 - 633	Boone chert <i>formation</i>	115'	Chert covered to top of hill
<i>517</i> 512 - 518	Boone <i>formation</i> limestone & chert	1	Limestone & chert outcrop
515 - 517	" " "	2'	Covered interval
513 - 515	Basal <u>Mississippian</u> sand	2'	Outcrop
497 - 513	St. Clair limestone	16'	Outcrop
483 - 497	" "	14'	Covered interval to St. Clair outcrop
466 - 483	Cason shale	17'	Outcrop, covered contact with St. Clair limestone
421 - 466	Fernvale limestone	45'	Outcrop
398 - 421	Kimmswick limestone	23'	Outcrop
312*- 398	Plattin limestone	76'	Outcrop; lower Plattin covered by Quaternary alluvium

* Elevation of the Railroad track at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #24

Location: Point of a bluff on the railroad in NW $\frac{1}{4}$ Sec. 35 T 15N R 9W, IZARD Co. Ark.
Geologist: Holbrook and Sterling Method: Hand level
Datum: Sea level Date: May 27, 1958

Interval	Formation	Thickness	Remarks
650 - 673	Boone formation	23	Float
645 - 650	Concealed	5 6	St. Joe and gray, dense limestone float
644 - 645	St. Clair limestone	1	Outcrop
575 - 644	Fernvale limestone	69	Outcrop
549 - 575	Kimmswick limestone	26	Outcrop
359 - 549	Plattin limestone	190	Outcrop
319 - 359	Joachim dolomite	40	Outcrop
313*- 319	St. Peter sandstone	6	Outcrop

*Elevation of railroad track at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #25

Location: East side of valley in NE $\frac{1}{4}$ Sec. 26 T 15N R 9W, IZARD County, Ark.
Geologist: Wist² and Browne Method: Hand level and Aneroid
Datum: Sea Level Date: May 21, 1958

Interval	Formation	Thickness	Remarks
755 - 823	Boone formation	68'	Float to top of hill
692 - 755	Fernvale limestone	63'	Covered contact, scattered beds
662 - 692	Kimmswick limestone	30'	Massive scattered beds
587*- 662	Plattin limestone	75'	Massive beds

*Elevations of the valley floor at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #26

Location: North side of county road to Guion in SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 23 15N
9W, IZARD County, Arkansas

Geologist: Wise and Browne Method: Hand level

Datum: Sea level Date: May 22, 1958

Interval	Formation	Thickness	Remarks
830 - 818	Boone formation	12	Scat beds and float
818 - 816 $\frac{1}{2}$	St. Joe limestone	1 $\frac{1}{2}$	Massive beds
816 $\frac{1}{2}$ - 815	Sylamore sand	1 $\frac{1}{2}$	Thin beds
815 - 780	Fernvale limestone	35	Massive beds
780 - 756	Kimmswick limestone	24	Scattered and massive beds
756 - 747	Plattin limestone	94	Massive beds

Invert

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #27

Location: East slope of Mike Hollow in SW $\frac{1}{4}$ of Sec. 26 T 15N R 9W,
Izard County, Arkansas

Geologist: Holbrook and Sterling

Method: Hand level

Datum: Sea level

Date: May 27, 1958

Interval	Formation	Thickness	Remarks
723 - 765	Boone formation	42	Float
660 - 723	Fernvale limestone	63	Outcrops, upper contact obscured
634 - 660	Kimmswick limestone	26	Outcrops
447 - 634	Plattin limestone	187	Outcrops
350* - 389	St. Peter sandstone	39	Outcrops

*Elevation of the creek bed at the base of the section

WHITE RIVER LIMESTONE PROJECT - MEASURED SECTION #28

Location: 2/3 mile up Rocky Bayou on west side Sec. 22 T 15N R 9W IZARD Co, Ark.
Geologist: Browne and Wise Method: Hand level
Datum: Sea level Date: June 6, 1958

Interval	Formation	Thickness	Remarks
694 - 746	Boone formation	52'	Float to top of hill
671 - 694	St. Clair Limestone	23'	Outcrop, contact with Boone formation
645 - 671	Fernvale limestone	26'	Scattered outcrops
623 - 645	Kimmswick limestone	22'	Massive (sparse outcrops)
485 - 623	Plattin limestone	138'	Outcrop, massive
433 - 485	Joachim dolomite	52'	Outcrop massive
300*- 433	St. Peter sandstone	133'	Lower 58' covered by Qal with only scattered St. Peter outcrops

*Elevation of Rocky Bayou at the base of the section.

RECORD OF MINERAL ANALYSIS

Sample No. 2053

Date 4/25/58

From: White River Limestone Mapping

Report to D.E.H.

Project

Letter Accompanying: Yes No X File Under Limestone

Location: County Stone Sec. Twp. Rge.

South & West Bluff's of White River

Mineral Suspected By Sender: Chemical Limestone

Kind of Material: Kimmswick & Fernvale Limestone

Test Recommended For: See Below

By:

ANALYSIS

Measured Section #	Location	Formation	Thick- ness	Sample No.	ANALYSIS PER CENT							
					CaCO ₃	MgCO ₃	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MnO	P	S
1.	SE ₁ TL4N Sec 5 R8W	Kimmswick	26	1-1	98.2	1.3	.40	1.31	.17	.06	.07	.02
1.	SE ₁ TL4N Sec 5 R8W	Fernvale	79	1-2	96.7	1.1	.64	.96	.32	.10	.10	.01
5.	SW ₁ TL5N Sec 31 R8W	Kimmswick	24	5-1	98.0	1.2	.44	.72	1.14	.04	.05	.03
5.	SW ₁ TL5N Sec 31 R8W	Fernvale	74	5-2	95.5	1.3	.96	1.16	.72	.26	.08	.03

Analysis By:

Date Completed:

Remarks:

RECORD OF MINERAL ANALYSIS

Sample No. 2058

Date 5/21/58

From: White River Limestone Project

Report to DFH

Letter Accompanying: Yes No X File Under Limestone

Location: County Izard NW Sec. 1 Twp. 14N Rge. 9W

Wolford Marble Quarry on Mo. Pac. R.R.

Mineral Suspected By Sender: High Calcium Limestone

Kind of Material: Fernvale and Kimmswick Limestones

Test Recommended For: See Below

By:

ANALYSIS

Measured Section #	Location	Formation	Thick- ness	Sample No.	ANALYSIS PER CENT							
					CaCO ₃	MgCO ₃	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MnO	P	S
21	NW 1/4 Sec 1 T14N, R9W	Kimmswick	26	21-1	98.6	0.96	0.20	.80	.08	.07	.12	nil
21	NW 1/4 Sec 1 T14N, R9W	Fernvale	74	21-2	98.5	1.09	0.28	1.13	.19	.08	.11	Tr.

Analysis By:

Date Completed:

Remarks:

Sheet #1

RECORD OF MINERAL ANALYSIS

Sample No. 1243

Date: _____

From: Brewster

Geology Letter Accompanying: Yes No

dry creek

File Under: Limestone

Location: County _____ Sec. _____ Twp. _____ Rge. _____

Mineral suspected by sender: _____

Kind of Material: Limestone

Test Recommended for: _____

ANALYSIS

1
Plattin
0-10'

2
Plattin
10-20'

3
Plattin
20-30'

4
Plattin
30-40'

SiO ₂	2.7%	2.55%	2.40%	0.65%
R ₂ O ₃	1.15%	1.05%	0.90%	0.35%
Fe ₂ O ₃	0.38%	0.31%	0.28%	0.02%
Al ₂ O ₃	0.77%	0.74%	0.62%	0.33%
CaCO ₃	95.65%	95.85%	96.10%	98.85%
MgCO ₃	0.89%	0.97%	0.89%	0.64%

T. Carney

Remarks:

Date Completed:

RECORD OF MINERAL ANALYSIS

Sample No. 1243
Date: _____

From: Permian
Geology
Dry Creek
Letter Accompanying: Yes _____ No _____
File Under: _____

Location: County _____ Sec. _____ Twp. _____ Rge. _____

Mineral suspected by sender: _____

Kind of Material: Limestone

Test Recommended for: _____

ANALYSIS

	Kimmer		Fennvale		
	12	13	14	15	16
	0-10'	10-17'	0-10'	10'-20'	20'-25'
SiO ₂	0.35%	0.45%	0.50%	0.40%	0.50%
R ₂ O ₃	0.45%	0.55%	0.40%	0.40%	0.40%
Fe ₂ O ₃	0.18%	0.28%	0.32%	0.29%	0.37%
Al ₂ O ₃	0.27%	0.27%	0.08%	0.11%	0.03%
CaCO ₃	99.0%	98.75%	99%	99.25%	99.25%
MgCO ₃	0.46%	0.77%	0.82%	0.72%	0.76%

Phos

- (A) composite Plattin 0-30' - .006 %
(B) comp. Plattin 30'-110' - .006 %
(C) comp. Kimmer 0-17' - .179 %
(D) comp Fennvale 0'-25' - .102 %

T. Carney

Remarks:

Date Completed:

4-3-52

RECORD OF MINERAL ANALYSIS

Sample No. 1243

Date: _____

From: Bremster

Geology Letter Accompanying: Yes ☐ No ☐

Dry Creek

File Under: _____

Location: County _____ Sec. _____ Twp. _____ Rge. _____

Mineral suspected by sender: _____

Kind of Material: Limestone

Test Recommended for: _____

ANALYSIS

	Platte				Platte		
	5	6	7	8	9	10	11
	40'-50'	50'-60'	60'-70'	70'-80'	80'-90'	90'-100'	100'-110'
SiO ₂	0.90%	1.15%	0.30%	0.15%	1.10%	2.30%	1.85%
Al ₂ O ₃	0.90%	0.90%	0.40%	0.20%	0.55%	1.10%	1.20%
Fe ₂ O ₃	0.07%	0.14%	0.18%	0.16%	0.33%	0.57%	0.91%
CaO	0.93%	0.76%	0.22%	0.04%	0.22%	0.53%	0.29%
CaCO ₃	97.35%	97.15%	98.65%	98.90%	97.90%	96.15%	96.35%
MgCO ₃	0.72%	0.86%	0.68%	0.46%	0.68%	0.82%	0.82%

T. Carney

Remarks:

Date Completed:

2.

RECORD OF MINERAL ANALYSIS

Sample No. 1168

Date: _____

From: Bremsted
Geol.

Letter Accompanying: Yes No

File Under: _____

Location: County _____ Sec. _____ Twp. _____ Rge. _____

Mineral suspected by sender: _____

Kind of Material: Limestone

Test Recommended for: _____

ANALYSIS					
A		B		C	
58 claim Ind 1 William Trail		58 claim Ind 2 William Trail		58 claim Ind 3 William Trail	
				58 claim Ind 4 William Trail	
				Lafferty William Trail	
SiO ₂	1.60%	1.10%	5.73%	10.96%	10.8%
R ₂ O ₃	0.9%	0.9%	1.9%	3.8%	3.5%
Fe ₂ O ₃	0.7%	0.7%	1.0%	1.2%	1.7%
Al ₂ O ₃	0.2%	0.2%	0.9%	1.8%	1.8%
CaCO ₃	94.5%	95.5%	87.2%	78.8%	82.1%
MgCO ₃	1.5%	1.0%	3.3%	5.8%	2.9%
Troy W. Carney					

Remarks:

Date Completed:

6-21-51