

TEST WELL LOCATED IN S. W. 3 CORNER OF
S. E. 1/4-SECTION 10, TOWNSHIP 18, RANGE 16, OSAGE COUNTY, KANSAS.

Van Buskirk Farm 10-18-166

Samples of formation from top of Mississippi Lime, cap encountered at 1461 feet to 1803. - 342 ft. in lime break. 29 ft. gray water sand on top of lime.

Sample No.

1,	6 ft.	Mississippi lime cap (sample mixed with water sand)	1467
2,	3 "	Brown sand (small oil showing)	1470
3,	7 "	White sand (dry)	1477
4,	1 "	Gray lime (sample mixed with caving)	1478
5,	6 "	Gray sand (hard and dry)	1484
6,	16 "	Sandy lime,	1500
7,	11 "	Sandy shale (white)	1511
8,	6 "	Gray sandy lime,	1517
9,	21,"	---(Conglomerate which is composed of quartz,limestone (with a cement mainly of iron oxide & limestone. (This formation continues to 1757 of this log, vary- (ing only in hardness of different stratas of the (above mentioned rocks.	1538
10,	7,"	Hard conglomerate	1545
11,	9,"	" "	1554
12,	5,"	Softer "	1559
13,	6 "	" "	1565
14,	3 "	Hard " (Mostly quartz)	1568
15,	2 "	" "	1570
16,	4"	" " (Brown)	1574
17,	4 "	" " (Gray)	1578
18,	8 "	" "	1586
19,	10 "	" " (Brown)	1596
20,	3 "	" "	1599
21,	4 "	" " (light brown)	1603
22,	9 "	" " (mostly white & blue quartz)	1612
23,	3 "	Soft " " " "	1615
24,	7 "	" " " " " "	1622
25,	8 "	Hard " " " "	1630
26,	42 "	" " " " " "	1672
27,	18 "	" " " " " "	1690
28,	3 "	" " " " " "	1693
29,	2 "	" " " " " "	1695
30,	4 "	" " " " " "	1699
31,	13 "	" " " " " "	1712
32,	12 "	" " " " " "	1724
33,	15 "	" " " " " "	1739
34,	18 "	" " " " " "	1757
35,	32 "	" " (Lime and Flint)	1767
36,	10 "	" (Softer, Lime & Flint)	1789
37,	3 "	" (Harder " ")	1802
38,	1 "	" " " "	1803.

The formation from 1517 to 1803, would usually be logged as 286 ft. conglomerate, but is separated here as a guide to set a sample which accompanies this report.

10-18-16E

REPORT ON SAMPLES.

W.W.Trigg Well, Van Buskirk farm, S.W.Cor.N.E.1/4 sec.10-18-16

Osage county, Kansas. *6/1 1634 1925**SW 50 51*

- Sample No.1 -1461-1467'-- Gray weathered flint with considerable brown quartz sand. Grains small and well rounded. Traces of black shale and decomposed limestone.
- 2 1467-1470 -- Brown limestone with gray flint. Traces of fine quartz sand, black shale, and pyrite.
 3. 1470-1477 -- Drab limestone with gray flint.
 4. ----- No sample.
 5. 1478-1484 -- Gray limestone and flint.
 6. 1484-1500 -- Gray flint and limestone.
 7. 1500-1511 -- Gray calcareous shale with white flint.
 8. 1511-1517 -- Gray crystalline limestone and white flint.
 9. 1517-1538 -- White flint and drab limestone.
 10. 1538-1545 -- " " " " "
 11. 1545-1554 -- " " " " "
 12. 1554-1559 -- " " " " "
 13. No sample.
 14. 1559-1568 -- White flint and gray limestone. Flint somewhat decomposed.
 15. 1568-1570 -- Drab limestone and white flint.
 16. 1570-1574 -- " " " " "
 17. 1574-1578 -- White to gray flint and gray limestone.
 18. 1578-1586 -- " " " " "
 19. 1586-1596 -- Friable, shaly, drab limestone. Traces of white flint
 20. 1596-1599 -- " " " " and white flint.
 21. 1599-1603 -- White to blue flint with brown limestone.
 22. 1603-1612 -- " " " " "
 23. 1612-1615 -- " " " " "
 24. 1615-1622 -- Brown limestone and white to blue flint.
 25. 1622-1630 -- Light to dark gray flint. Traces of brown ls.
 26. 1672-1690 -- " " " " with hard, dark gray, crystalline, dolomitic limestone.
 28. ~~1690~~-1693 -- No sample
 29. 1693-1695 -- " "
 30. 1695-1699 -- Light to dark gray flint with drab limestone.
 31. 1699-1712 -- Light brown limestone and white to blue flint.
 32. 1712-1724 -- Drab limestone and white to blue flint
 33. 1724-1739 -- Brown limestone with a little white flint.
 34. 1739-1757 -- Hard, brown, crystalline limestone with gray flint.
 35. 1757-1767 -- Hard, dark gray flint with soft, gray limestone Traces of sphalerite.
 36. 1767-1789 -- Hard gray limestone and dark gray flint.
 37. 1789-1802 -- Soft gray limestone. Traces of dark gray flint.
 38. 1802-1803 -- No sample.
 39. 1803-1826 -- Soft brown limestone. Traces of dark gray flint.
 40. 1826-1834 -- Soft, dark gray flint and light gray, shaly ls.
 41. 1834-1840 -- Light to dark gray flint and gray limestone.
(Probable base of Mississippian: 1840')

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W.W. Greg Well, Van Buren farm

10-18-161
Osage Co., Kansas

- Sample No. 42. Hard, black, argillaceous shale. Traces of pyrite
43. " " " " "
44. " " " " " Bituminous.
45. Soft, light gray limestone and fine sand
of well rounded and polished quartz grains. Traces
of flint and pyrite.
46. Soft, light gray limestone and flint.
47. Fine, calcareous, gray sand of small, well
rounded and polished quartz grains. Contains a small
amount of gray limestone and flint.
48. Soft, gray limestone and fine, gray sand.
49. Very soft, light gray, fine grained limestone.
50. Fine, white, calcareous sand. Quartz particles
small, evenly graded, well rounded, and polished.
Contains a small amount of soft, gray limestone.
51. Similar to above.
52. Very fine, light brown, quartz sand, slightly
calcareous. Quartz grains very small and partly rounded.

Respectfully submitted,

A. L. Selig.