



WATER-RIGHT DOCKET

Buffalo National River

Docket No: 22

HASTY WELL

Other Supporting Information

04-05-1983: sample analysis at buffalo national river's hasty well #2; april 05, 1983

ROUGH DRAFT

MTrujillo:mf

4/5/83

Sample Analysis of Buffalo National
River's Hasty # 2 Well.

INTERVAL (ft)

SAMPLE DESCRIPTION

SOIL

0 - 10'	Gravelly clay loam, angular to subrounded, $\frac{1}{4}$ -a cm., slightly calcareous, red-brown.
10' - 20'	Clayey sand, larger grains angular; smaller subangular to well-rounded, $\frac{1}{4}$ -1.5 cm, slight to moderately calcereous, almost uniformly red.
20' - 30'	Gravelly clayey sand, large grains angular to smaller grains rounded, $\frac{1}{4}$ -2.5 cm, moderately calcareous, beige with red clay globs.
ST. PETERS SANDSTONE	
30' - 40'	Sand, nearly uniform size, very fine, sub-rounded to rounded, moderately calcareous, white frosted grains.
40' - 50'	Sand, larger particles angular, smaller ones sub-angular to rounded, $\frac{1}{4}$ -2 cm, moderately calcareous, pale grey chips white frosted sand.
50' - 60'	Silty sand, subangular micro-sucrosic chips, $\frac{1}{4}$ -1.5 cm, moderately calcareous, pale grey.

<u>INTERVAL (ft)</u>	<u>SAMPLE DESCRIPTION</u>
60' - 70'	Silty sand, angular to rounded, 1/4-1.5 cm, calcareous, pale grey.
70' - 80'	Silty sand, angular to sub-rounded, micro-sucrosic chips, 1/4-1.5 cm, calcareous, pale grey chips with black inclusions.
80' - 90'	Silty sand, sub-angular to sub-rounded, sucrosic, 1/4-1.5 cm, calcareous, pale grey.
90' - 100'	Silty gravel, sub-rounded to rounded, sucrosic, 1/4-2 cm, calcareous greyish white, gravel with glassy inclusion.
100' - 110'	Silty gravelly sand, angular to sub-angular, grainy chips, 1/4-2 cm, pale grey.
110' - 120'	Silty sand, sub-angular to sub-rounded, chips are grainy, 1/4-1.5 cm, calcareous grey banded with brown chert.
120' - 210'	Missing
210' - 220'	Silty gravelly sand, sub-rounded to rounded, sucrosic gravel, 1/4-2 cm, calcareous, white.
220' - 230'	Sand, sub-angular to round finely crystalline, flaked, 1/4-1 cm, calcareous white sand grey chert chips.
230' - 250'	Missing
250' - 260'	Sandstone, sub-angular to rounded, sub-crystalline,

<u>INTERVAL (ft)</u>	<u>SAMPLE DESCRIPTION</u>
	very fine, calcareous, spicular banded, grey blue chert, milky quartz grains.
260' - 270'	Dolomitic limestone, angular, sub-crystalline, very fine, spicular, banded, grey to blue.
270' - 280'	Dolomite, rounded, grainy, very fine, some cross-bedding, buff to grey.
280' - 290'	Dolomitic limestone, rounded to sub-angular, grainy to subcrystalline, very fine to μ , banding buff to grey, chert inclusions.
290' - 300'	Dolomitic limestone, subangular, grainy to sub-crystalline, very fine to μ , spicular, buff to grey, chert inclusions.
300' - 310'	No change
310' - 320'	No change
320' - 330'	Silty sandstone, sucrosic to sub-crystalline, fine grained, friable, rounded spicular clear sand, brown chert, silt.
POWELL LIMESTONE	
330' - 340'	Dolomitic Limestone, sub-crystalline, angular to sub-angular, very fine, spicular, dark grey with some fine sand inclusions.

<u>INTERVAL (ft)</u>	<u>SAMPLE DESCRIPTION</u>
340' - 350'	Glaconitic limestone, grainy to sub-crystalline, sub-angular, very fine, banding, dark grey to green.
	COTTER DOLOMITE
350' - 360'	Dolomite, sub-crystalline, angular, very fine, dark grey, chert spicular mottling buff.
360' - 370'	No Charge
370' - 380'	No Sample
380' - 390'	Dolomite, grainy to crystalline, sub-angular to angular, very fine to medium, banding brown to buff, chert and light pink calcite crystals.
390' - 400'	Dolomite, sub-crystalline, sub-angular, very fine, some banding, light grey to buff, with cert inclusions.
400' - 410'	Dolomite, sub-crystalline, sub-angular, microscopic, light grey, chert mottled veins.
410' - 450'	No change.
450' - 460'	Dolomite, sub-crystalline, sub-angular, very fine, thin platy, light grey to dark, mottled chert inclusions.
460' - 470'	Dolomitic sandstone, sub-crystalline to pebble sized sand grains, sub-angular, silt to 2 cm, light grey to dark, with white chert veins.

<u>INTERVAL (ft)</u>	<u>SAMPLE DESCRIPTION</u>
470' - 480'	Dolomite, grainy to crystalline, sub-angular, silt to very fine, light grey to dark grey, white chert veins.
480' - 490'	Dolomite, grainy to sub-crystalline, sub-angular, irregular oo lites, very fine, light grey, white chert veins.
490' - 500'	No change.

Docket Information

Number of Documents in Docket 5
Documents Dated from 4/5/1983 to 4/5/1983
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