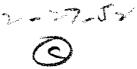
Margaret C. Kraus No. 9638 Well.



Union District, Preston County, W. Va.

By The Hope Natural Gas Company, Clarksburg, W. Va.

Located 0.7 mile S. of 39° 25' and 46.46 4.54 miles W. of 79° 30'. Kingwood Quadrangle - EC -Elevation 2128! L. Permit Preston = 22.
Commenced July 1951; completed Oct. 20, 1951.
Gas Well = 8,554,000 cu. ft. Gas at 5020'-5055' Ran 7" casing to 4988'. Section based on sa mples from 4202 to 5047; examined by Russell R. Flowers. Top Bottom Thickness 4202 4313 111 Shale, grayish-black, some grayish-black to black (carbonaceous), calcareous, small amount is pyritic Tully Limestone, 24 Feet. 4313 Limestone, medium dark gray to olive-gray and some olive-gray to brownish-black, very shally to a highly calcareous shale; a large amount of dark-gray to 4337 24 4313 grayish-black, calcareous shale in the lower part Hamilton and Marcellus Shales, 618 Feet. 4337 4629 292 Shale, dark-gray to grayish-black, some grayishblack to black, a very small amount of calcite and dolomite at the top, mostly grayish-black at 4455 tox** 4496 and at 4576 to 4580, dolomitic in part at 4553 to 45701 4629 4800 171 Shale, grayish-black, some grayish-black to black (carbonaceous), a very small amount is dolomitic 4800 4850 60 Shale, grayish-black to black, carbonaceous 4860 4891 31 Shale, grayish-black to black (carbonaceous) and black (highly carbonaceous), calcareous, pytitic (very finely disseminated) 4891 4926 Shale, dark-gray to grayish-black, highly calcareous with some shaly limestone; some grayish-black to 35 black shale, highly calcareous in part 4926 4955 29 Shale, grayish-black to black (carbonaceous) and black (highly carbonaceous), calcareous, highly calcareous in the lower part; some brownish-gray to, dark yellowish brown metabentonite at the bottom Huntersville Chert, 100, plus, Feet. Shale, grayish-black to black, carbonaceous, highly calcareous with some dark-gray limestone, pyritic in 4955 4971 16 part 4971 4976 Shale, dark-gray to grayish-black, highly calcareous 5 with some limestone, glaucenitic, pyritic in part

Shale, dark-gray to grayish-black, highly calcareous

to somewhat calcareous chert, medium- to dark-gray, a little light-gray

Shale, grayish-black to black (mostly cavings?)

4976 4987

4987 4994

11

7

4994	499 7	3 .	 Chert, medium- to dark-gray, argillaceous in part to a grayish-black shale, silicified, calcareous, somewhat dolomitic, highly dolomitic in the lower part
4997	5005	8	Chert, light- to darkegray (argillaceous), calcareous and dolomitic, highly dolomitic in part, some of the chert is spicular
5005	5015	10	Chert, light- to medium-gray (transparent to trans- lucent, spicular), medium- to dark gray (silty, "dead"), somewhat calcareous, slightly to moderately dolomitic; some grayish-black, argillaceous chert to shale
5015	5026	11	Chert, very light to medium-gray, some dark-gray to grayish-black (argillaceous), spicular, slightly dolomitic
5026	503 &	12	Chert, white to light-gray (translucent), some light- to medium-gray (translucent to opaque), some dark-gray to grayish-black (argillaceous), somewhat spicular, slightly dolomitic; most of the chert is very fine to coarse, subangular to angular sand grains
5038	5047	9	Chert, mottled light- to medium-gray and dark-gray to grayish-black (argillaceous), angular to subangular sand, very fine to medium and some coarse sand 9 rd/hs
	5055		TOTAL DEPTH
		-	