Loudin District, Kanawha County, W. Va.

By Owens, Libby-Owens Gas Department, Box 4158, Charleston, W. Va.

Located 3.5 Mi. S. of 38° 15' and 3.11 Mi. W. of 81° 35'

Peytona Quadrangle, - M. C.

Elevation, 1105.75' L.

Permit Kan-1401

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Gas well; Volume 564 M. gas at 6073-6079 (Newburg? Sed) Dry in Oriskang

R. P. 1680# in 20 hours

Section based on samples from 4638 to 4910

Examined by Russell R. Flowers, Mineralogist.

To p	Bottom	Thickness	HUNTERSVILLE CHERT, 97 Feet
4638	4639	1	Shale, black, highly carbonaceous, pyritic, cal-
			careous in part, 60%; limestone, brownish-gray to
			brownish-black, shaly, contains a little chert, 40% ja very small amount of meta-bentonite
46 39	4641	2	Limestone, brownish-gray to brownish-black, shaly,
			cherty
4641	46 44	5	Limestone, brownish-gray to brownish-black, shaly,
			cherty to chert, very light gray to brownish-gray
46 44	46 49	5	Chert, very light gray to light brownish gray and
			brownish-gray, highly calcareous, shaly in part,
		•	somewhat dolomitic
4649	4658	9	Chert (calcareous) to limestone (shaly), light-
		·	gray to brownish-gray, some brownish-black
4658	4669	11	Limestone, brownish-gray to brownish-black with
			light- to medium-gray apots, very shaly, very
			cherty, small amount is dolomitic
4669	4678	9	Limestone, to chert (calcareous), brownish-black,
		41	some brownish-gray and medium-gray, very shaly,
			dolomitic
4678	4682	4	Chart, very light to medium-gray and brownish-
		•	gray, some brownish-black (shaly), silty and sandy
			(very fine), highly calc areous, dolomitic, some-

what glauconitic

4682	4694	12	Limestone to chert (calcareous), light- to medium-gray
			and brownish-gray, mostly light- to medium-gray at the
			bottom, very silty to a calcareous siltstone at the bot-
			tom, dolomitic, slightly glauconitic
4694	4701	7	Limestone, light- to medium-gray, somewhat dolomitic,
			very silty, cherty; contains a little glauconite
4701	4711	10	Limestone (very silty) to chert (calcareous), brownish-
			gray with light-gray spots, medium-gray to brownish-gray
			in the upper part, medium-gray and highly glauconitic at
			4707 to 4709', slightly dolomitic, sandy in the lower
	,		part
4711	4714	3	Sandstone, light brownish gray to brownish-gray, very
			fine to fine-grained, some medium (rounded and frosted)
			grains, highly calcareous, somewhat glauconitic, some-
			what dolomitic
4714	4716	2	Limestone, brownish-gray, sandy (very fine to medium-
			grained), somewhat shaly and cherty
4716	4719	3	Limestone (shaly) to calcareous chert and sandstone,
			medium-gray to brownish-gray, glauconitic, some brown
			material (collophane ?), somewhat dolomitic
			(4719 corrected to 4717)
4717	4718	1	Limestone, medium dark gray, some brownish-gray, very
	.=	_	silty and cherty, somewhat sandy, dolomitic, glauconitic
4718	4720	2	No sample
4720	47 35	15	Siltatone to sandstone (very fine), medium dark gray to
			brownish-gray (in the upper part) to medium light gray
			and light brownish gray (in the lowerpart) calcareous,
			somewhat dolomitic, dolomitic at the bottom, glauconitic;
			at the bottom a thin very highly glauconitic, medium- to
			dark-gray, sandy siltstone

ORISKANY SANDSTONE, 9 Feet.

4735 4744 9 Sandstone, very light gray, some light gray, fine- to medium-grained in the upper part, many coarse (rounded and frosted) grains at the top, mostly fine-grained in the middle and lower parts, subrounded to rounded, mostly quartz grains with a calcite cement, highly calcareous; contains some medium-gray streaks of sandy limestone

HELDERBERG FORMATION, 151 FEET.

			AND AND THE SHELL WAS A OF LIDE .
47 44	4748	4	Limestone to siltstone, light- to medium-gray, cherty
4748	47 57	9	Chert, very light gray to light brownish gray, some
			medium-gray and brownish-gray, highly calcareous,
			slightly dolomitic, silty in part
4757	4764	7	Chert, (calcareous) to limestone (very shaly and silty),
•			very light gray to dark-gray, a large amount of brownish-
			and grayish-black (very shaly), dolomitic in part
4764	4766	2	Limestone (shaly) to shale (calcareous), medium-gray
			to grayish-black, some brownish-gray to brownish-black,
			very cherty, dolomitic in part
4766	4771	5	Limestone (shaly) to shale (calcareous) dark-gray to
			brownish- and grayish-black, some medium-gray, cherty,
			dolomitic
4771	4773	2	No sample
4773	4785	12	Limestone (very shaly) to shale (highly calcareous),
			brownish-black, brownish-black to grayish-black in the
			lower part, silty and cherty in the lower part, dolomitic
4781	4785	4	(Depth correction?) Limestone, (shaly) to shale (calcar-
			eous), dark-gray to grayish-black with light - to medium-
			gray spots, very cherty, dolomitic
4785	4787	2	No sample
4787	4788	1	Limestone (very shaly) to calcareous shale, dark-gray
			to grayish-black with some light gray, cherty and silty
			dolomitic
4788	4792	4	Shale, brownish- to grayish-black, calcarsous, dolomitic
4792	4800	8	Shale, dark gray to grayish-black, highly calcareous,
			cherty with light- to medium-gray spots of sandy (very
		-	fine), highly calcareous, glauconitic siltatone
4800	4802	2	Siltstone to sandstone (very fine), light- to medium-
			gray with dark-gray (shaly) streaks, highly calcareous,
			slightly dolomitic, glauconitic, cherty at the bottom
4802	4810	8	Siltstone and sandstone (very fine), medium- to dark-
			gray (shaly) with light-gray spots, highly calcareous
			to a silty limestone, glauconitic, cherty

4810	4623	13	Siltstone and sandstone (very fine) to chert, light- to
			medium-gray with dark-gray to grayish-black streaks
			(shaly), highly calcareous, dolomitic in part, glauconitic
4823	4830	7	Limestone (silty) to siltstone (highly calcareous), light
	ř		to dark-gray (shaly), sandy, very cherty, somewhat glau-
			conitic
4830	4835	5	· Chert (silty) to miltstone and mandatone (very fine),
			light-gray to light olive gray, highly calcareous, some-
			what glauconitic
4835	4840	5	Limestone (silty and sandy) to a calcareous, sandy (very
			fine) siltstone, light- to medium-gray, some dark-gray
			streaks (shaly), cherty
4836	4839	3	(depth correction?) Limestone (silty) to siltstone (cale
			careous), medium- to dark-gray, sandy (very fine), cherty,
			shaly
48 39	48 44	5	Limestone, light- to dark-gray, very silty and sandy
			(very fine), shaly in the lower part
48 44	4854	10	Shale (calcareous) to limestone (silty and sandy), dark-
			gray to grayish-black with light- to medium-gray spots,
			considerable medium to dark-gray (more highly calcareous)
			at the bottom, cherty, some fossil fragments, somewhat
			dolomitie
4854	4890	36	Limestone, medium dark gray to grayish-black with light,
		•	to medium-gray spots, sandy (mostly very fine), very
			shaly from 4782 to the bottom, somewhat pyritic (partic-
			ularly in the upper part), fossiliferous
4 8 90	4895	5 kkm	Limestone, medium dark gray to grayish-black with light-
			to medium-gray spots (the sample as a whole has a dark
			brownish cast), very sandy (very fine), shaly, somewhat
			pyritic, fossiliferous
			SALINE PORMATION, 15, plus, feet.
4895	4903	8	Limestone, brownish-gray to brownish-black with light-
			gray spots, some dark-gray to grayish-black, shaly, some-
			what sandy (some very fine doubly terminated quartz crys-
400=	40= =		tals), dolomitic in part, contains a little pyrite
4905	4910	7	Limestone, brownish-gray to brownish-black