5-12-52

J. Paul Martin No. 9331 Well.

		<u>.</u>	J. Paul Martin No. 9551 Well.		
Pertland District, Presten County, W. Va. By Hepe Natural Gas Co., 445 W. Hain Street, Clarksburg, W. Va. Lecated 5.58mi. S ef 59° 30° and 4.05 mi. W. ef 79° 30°. Kingwood Quadrangle - HE Elevation 1898' L. Permit - 10 Drilling commenced Feb. 16, 1949; completed June 21, 1949. Shet June 20, 1949 at 5171-5203 and 5281-5331; with 90 and 100 quarts. Gas well; wlume 2,071,000 m. ft. Rock pressure, 2140 peumds in 24 hours. 16° easing, 14'; 11°, 319'; 9°, 1491'; 7°, 4905'; all left im. Gas at 4926, 4942, 4961, 4964, 8014, 8116'; Oriskany gas at 5175, 5174, 5178, 5180, 5183, 5198, 5295 856 M. before shet. Section based on samples from 5996 to 5360; examined by Russell R. Flowers					
			Harrell Shale, 107 Feet.	. K. Flowers	
3996	4105	107	Shale, grayish-black (semewhat carbonace grayish-black to black (earbonaceous) at t	ous), some	
		:	Tully Limestone, 17 Feet.		
4103	4120	17	Limestone, dark-gray to elive-black, arg pyritic in part; a large emount of grayis to black shale, highly calcareous in part	h h 2 h	
4120	41.64	44	Hamilton and Marcellus Shales, 758 Feet. Shale, dark-gray to grayish-black, highlin the upper part	- :	
41.64	41.85	521	Shale, darkogray to grayish-black, some black to black (carbonacceus), small amoun calcareous	grayish- t is highly	
4485	4550	65	Shale, dark-gray, semewhat calcareous am	d dolamitic	
4550	4765	21.5	Shale, dark-gray to grayish-black, some black to black (carbonaceous); small amount careous		
4765	4789	24	Shale, medium dark gray, esicareous, som	-eleb tadus	
4789	4878	89	Shale, grayish-black, semewhat carbonaced cous, slightly pyritie; small amount of she ensided; small amount of calcite; small amount of calcite; small amount at the calcite at the calcit	do is slick	
			Onendara Grann cor D		

Omendaga Group, 293 Feet.

4878	4898	80	Shale, dark-gray to grayish-black, highly calcarcous to a very shaly limestone (predominant in the lower part); some dark yellowish-brown to brownish-black metabentenite at the top
4898	4905	B	Shele /he-kl.

4598	4903	5	Shale (highly cakeareous) to limestone (very shaly), dark-gray to grayish-black, very cherty

	2072	A.R.	omert, medium-	te	dark-gray,	argilla ceous,	calcaroous
403.4	46==						

4914 4935 19 Chert, light-gray, some medium- to dark-gray (argillaceous), translucent, semewhat calcareous and dele-

4938	3 49 64	11	Chert, light-gray (transparent to translucent) mettled with dark-gray to grayish-black (highly argillacous), spicular, slightly delemitie
4964	4955	9	Chart light to medium-gray (translucent, spicular) mettled with dark-gray to grayish-black (argillaceous), slightly delemitie
4953	4964	112	Chert, light- to dark-gray (argillaceous), silty, with some siltstone, slightly delemitie, small/amount is glaucenitie
49 64	4970	6	Chert, medium to medium dark gray (ordinary) mettled with dark-gray to grayish-black (highly argillaceous), slightly delomitie
4970	4985	13	Chert (medium- to dark-gray) to silicified, silty shale (grayish-black)
4985	4999	16	Chert, medium-gray (silty im part), some darkegray to grayish-black (argillaceous to silicified shale), slightly delemitie
4999	5014	15	Shale, grayish-black, silty, calcareous; a large amount of light- to dark-gray chert at the bettem
5014	5019	5	Chert, light- to medium-gray mettled with grayish- black, silicified shale, semewhat caleareous and delemitie
5019	5023	4	Chert, light- to medium-gray mettled with dark-gray to grayish-black (argillaccous), semowhat calcarects and delemitie
5025	5034	11	Chart, light- to medium-gray (translucent, somewhat spicular), some dark-gray to grayish-black (argilla-cous), slightly calcareous, slightly delemitie
	50_44	10	Chert, light- to medium-gray (translucent to epaque) semewhat spicular) mettledwith seme dark-gray to grayish-black (argillaccous) city-in pass), slightly delemints
5044	5055	11 .	
5244			Chert, light-gray (translucents spicular) mettled with grayish-black (argillacoous) stity in part), slightly delemitie
5055	5070	15	Chert, light- to medium-gray, mettled with dark-gray to grayish-black (highly argillaceous); trace of delemite
5070	5077	7	Chert, light- to dark-gray, some dark-gray to grayish- black (argillaceous), very silty, slightly delemitie; trace of glaucenite
5077	5097	20	Chert, medium- to dark-gray, a mederate to large amount of grayish-black (highly argillaceous), silty at the bettem; trace of delemite
5097	5107	10	Chert (medium dark gray) to silicified shale (grayish-black; trace of delemite
51.07	5126	19	Chert, medium to dark-gray; some grayish-black, silicified shale
5126	5143	17	Chert, medium dark gray to shale, grayish-black (silicified)
5143	ET 65	19	Shele, grayish-black, silicified
6162	5171	9	Shale, grayish-black

	(Tep 15	feet	Ridgeley Sandstone, 51 Feet. like subsurface Oriskany in the Charleston Area)
5171		10	Sandstone, very light to light-gray, fine to medium grained, subrounded to rounded, some coarse grains, quartzose, contains small amounts of dark interstitial material, calcareous (coment)
51.81	5186	5	Sandstone, light-gray, fine-grained, some medium grains, subrounded to rounded, very fine to fine-grained at the top, calcareous (coment)
51.86	51.98	12	Sandstone, light-gray (some medium- to dark-gray argillaceous streaks at the top), very fine to medium-grained, some coarse grains at the top, angular to subrounded, some rounded grains, very highly ealear-
5198	5209	11	Sandstone, medium-gray with light-gray spets, very fine to fine-grained, some medium-gray, subangular to subrounded, very fine at the top and bettem, silty, very highly calcareous, contains some interstitial (shaly) material
5209	5215	6	Sand stone (highly calcareous) to limestone (very sandy), medium- to dark-gray, very fine to fine-grained, some medium to coarse grains, silty, sub-angular to subrounded, somewhat cherty; some grayish-black shale
5215	5883	8	Sandstone, light- to medium-gray, very fine to medium-grained, subangular to subrounded, some coarse grains, silty, very highly calcareous, somewhat argillaceous
5225	5229	6	Sandstone, very light to light-gray, very fine to medium-grained, subangular to subrounded, some coarse (rounded) grains, silty, highly calcareous
5229	5232	3	Sandstone, light-gray, as above, but more calcareous at the top
			Helderberg Group, 128, plus, Feet.
5232	5235	3	Sandstone, medium-gray, some dark-gray (argillaceous streaks), very fine grained, very ilty, some fine to medium grains (subrounded to rounded), very highly calcareous
5235	5244	9	Sandstone, medium-gray te dark-gray (argillaceous), very fine grained, very silty, many fine to seems),

51 52 52 52 52 523 523 very fine grained, very silty, many fine to cearse (rounded) sand grains, very highly calcareous 5244 5257 Sandstone, medium-gray to grayish-black, very fine grained, silty, some fine to coarse grains, highly 15 argillaccous, very highly calcareous to limestone (sandy); seme very fine to medium-grained, light-gray sandstone at the bettom 5257 5267 10 Sandstone, light- to medium-gray with some dark-gray (shaly) streaks, very fine to fine-grained, contains many fine to medium (rounded) grains, very highly eal careous 5267 5272 5 Sandstone, light- to medium-gray, very highly caleareeus with limestone spets, very fine to fine-grained, many fine to medium and some cearse, rounded grains, semewhat argillaceous; trace of chert (lacy) 5272 5281 Sandstone (very fine, highly calcareous) to limestone 9

(very sandy), dark-gray to grayish-black (highly argillaceous) in the upper part, light-te dark-gray (so me what argillaceous) in the lewer part, some fine to coarse

5281	5286	5	Sandstone, light- to medium-gray at the top, light- gray in the middle ami lewer parts, fine-grained, subangular to subrouded, some medium (rounded) grains, some very fine grains, very highly calcareous
5286	5291	5	Sandstone (very fine) highly calcareous) to limestone (very sandy), light- to medium-gray, some dark-gray, (argillaccous), some fine to medium grains (rounded)
5291	5297	6	Sendstone, (very fine, very highly calcareous) to limestone (very sandy), medium to dark-gray (argilla- ecous), at the top, very silty, some fine to medium (rounded) sandmin
5297	5305	8	Sandstone, very light to light-gray with some dark- gray to grayish-black (argillaceous) streaks, fine- to medium-grained, some coarse grains at the top, sub- angular to rounded, highly calcareous, very highly calcareous at the bottom
5506	5508	3	Sandstone, light-gray, very fine to fine-grained at the top to fine-grained atk the bettom, very highly calcareous
5308	5531	23	Sandstone, (very fine, very silty, highly calcareous) to limestone (very sandy to siltatone), medium- to dark-gray, with grayish-black (argillaceous) streams in upper part and light-gray (limestone) spets, seme-what cherty
5331	5343	18	Limestone (very sandy) to sandstone (very fine, high- ly emicareous), medium-gray, some dark-gray (argilla- ecous), some slightly cherty, some fine to medium (rounded) grains at the bettom
5343	5360	17	Limestone, medium- to dark-gray with light-gray spets, very sandy to a highly calcareous sandstone, very fine to fine grained, some medium grains, very fine to medium-grained atk the bettom, contains some argilla secus material
	5360		TOTAL DEPTH