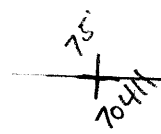


LATITUDE 39°42'30"

79°55'00"

LONGITUDE



coal test  
detected

7'5 OGIS topo location

7.5' loc	<u>1.725</u>	15' loc	<u>4.605</u>
	<u>2.20 W</u>	(calc.)	<u>2.20 W</u>

#322 in 1912 Co Rpt

Company \_\_\_\_\_

Farm \_\_\_\_\_

Quad Morgantown North NW

County Monongalia

District Union

WELL LOCATION MAP

File No. 061-70411

Union district, 0.8 mile southeast of VanVoorhis. Authority, Randall Gas and Water Company.

	Thickness. Total	
	Feet.	Feet.
Conductor box (surface gravel) .....	18.5	18.5
Unrecorded (water at 40') .....	101.5	120
Sand, Murphy .....	20	140
Unrecorded .....	150	290
Sand .....	10	300
Unrecorded .....	100	400
Coal, (Brush Creek) .....	3	403
Unrecorded .....	58	461
Sand, Big Dunkard .....	33	494
Coal, Upper Freeport .....	5	499
Unrecorded .....	67	566
Gas sand .....	79	645
Unrecorded .....	83	728
Coal, (Clarion) .....	4	732
Unrecorded .....	27	759
Sand, (H Cow Run and Salt) water at 796' .....	193	952
Unrecorded .....	168	1120

Union district, 0.5 mile north of Jaco. A. Jr., & Company.

(Elevation, 840' B-A. T.)

Conductor .....
Lime and shale .....
Coal, (Bakerstown) .....
Lime and shale .....
Sandstone and lime .....
Shale .....
Sandstone, (Buffalo) .....
Lime and shale .....
Sandstone, with water, (Mahoning) .....
Coal, Upper Freeport .....
Unrecorded and sandstone .....
Shale, black and brown .....
Lime, (Johnstown Cement.) .....
Sand .....
Shale, brown .....
Lime .....
Shale .....

WEST VIRGINIA GEOLOGICAL SURVEY.

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	Thickness. Total	
	Feet.	Feet.
Coal, (Lower Kittanning) .....	30	520
Lime and shale .....	...	550
Coal streak, (Clarion) .....	60	610
Shale, black and brown .....	100	710
Sand, "Salt" (hole full of water) .....	95	805
Slate .....	85	890
Blue sandy lime .....	10	900
Slate .....	54	954
Red rock .....	16	970
Lime .....	28	998
Red rock .....	87	1085
Big Lime .....	15	1100
Red rock .....	320	1420
Big Injun sand (upper 195' shelly) .....	180	1600
Slate and shells .....	60	1660
Lime and slate .....	60	1720
Sand, (Gantz) .....	35	1755
Unrecorded .....	10	1765
Sand (Fifty-foot) .....	40	1805
Slate and red rock .....	82	1887
Sand and lime .....	98	1985
Lime and red rock .....	82	2067
Shale and red rock .....	10	2077
Lime and shells .....	23	2100
Sand, (Fourth) .....	20	2120
Slate and shells .....	30	2150
Sand, (Fifth) .....	25	2175
Slate and shells .....	10	2185
Unrecorded .....	50	2235
Sand, (Bayard) gas show .....	15	2250
Slate and shells .....	357	2607
Lime, shells, etc. ....		

10" casing, 287'; 8 1/4" casing, 785'.  
 "Casing pulled and hole plugged to protect sands.  
 "Dry hole; sands regular, and very light show of gas at 2175'-2235'.

The detailed log of the Francis Costolo No. 1 well (326), located 3 1/4 miles northeastward at the mouth of Morgan run, is published in connection with the section for the latter place, page 105. A showing of oil in the Big Injun sand was reported in this well. This record as well as that of the White well above, reveals a marked increase in the intervals from the Pittsburgh coal down to the Big Injun and deeper sands over the same in that portion of the county west of the Monongahela river, due largely to the southeastward thickening of the Pottsville and Mauch Chunk measures.

20411

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PETROLEUM AND N

In this same region the F. located at the mouth of Rubles 1865 to a depth of about 600 feet reported in this well, but it was not until the same year the Samuel F. located on Rubles run, just across Pennsylvania, was drilled to a depth of showing of gas was encountered.

One-fourth mile southward struck in the Thos. Manning No. of the gas pay and the total depth retained.

The Chess Bros. No. 1 well (east of Laurel Iron Works P. O. South Penn Oil Company about feet. The well was considered a fresh water with a slight scum well mouth when visited by the

The log of the Ley No. 1 d east bank of Cheat river, 0.3 mi is published in connection with page 108.

Prospective Oil and Gas foregoing is a complete list of gas in Union district from which operator has not met therein which is due in large measure to the fact the district lies on the steeply great Chestnut Ridge anticline, folding of the strata has been caused all the original stores of oil and therein have probably escaped covers, rendering it useless to ordinary depth. However, in the the folding is not nearly so pronounced territory in that locality which further test wells. (1) That a crest of the Indiana anticline