

LATITUDE 38° 55'

0.140

3.360

LONGITUDE 01° 08'

7.5' OGIS topo location

7.5' loc \_\_\_\_\_ 15' loc \_\_\_\_\_  
(calc.) \_\_\_\_\_

Company Citizens

Farm Geo Burner #1

Quad Sago 15'

County Upshur

District Meade

WELL LOCATION MAP

File No. 097-70025

Map # 58 on Upshur  
County Report Map

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WEST VIRGINIA  
GEOLOGICAL SURVEY

VOLUME ONE A



PETROLEUM  
AND  
NATURAL GAS  
PRECISE LEVELS

1904

By I. C. WHITE, State Geologist.

WELLS (UPSHUR)

.....	10	805
.....	118	923
.....	10	933
.....	15	948
.....	120	1068
.....	12	1080
.....	75	1155
.....	6	1161
.....	29	1190
.....	20	1210
.....	8	1218
.....	5	1223
.....	17	1240
.....	35	1275
.....	15	1290
.....	15	1305
.....	35	1340
.....	20	1360
.....	30	1390
.....	40	1430
.....	15	1445
.....	40	1485
.....	30	1515
.....	65	1580
.....	180	1760
.....	20	1780
.....	5	1785
.....	25	1810
.....	3	1813
.....	30	1843
.....	5	1848
.....	12	1860
.....	80	1940
.....	45	1985
.....	3	1988
.....	107	2095
.....	10	2105
.....	107	2212
.....	25	2237

WEST VIRGINIA GEOLOGICAL SURVEY

Black slate .....	23	2260
Hard gray sand .....	15	2275
Red rock and shells .....	15	2290
Slate .....	25	2315
Good white sand .....	20	2335
Brown sand and red sand .....	50	2385
Black slate .....	15	2400
White slate .....	97	2497

Some oil and gas "shows" were found at several horizons in this well, but nothing in commercial quantity. The Big Injun Sand appears to have been struck at 1580 feet where it has become quite limy and held some dark heavy oil. The Pittsburg coal probably belongs about 100 feet above the level of the derrick floor.

*George Burner Well, No. 1. 70025*

Near the West Virginia and Pittsburg R. R. Station, Sago. Authority, D. F. Bailey, Manager of the Citizens' Natural Gas Company. Derrick floor about 1435 feet above tide.

	Feet.	Feet.
Soil .....	0.	to 16
Lime, white .....	16	" 22
Slate or shale, black .....	22	" 37
Lime, white .....	37	" 41
✓Coal and slate .....	41	" 50
Lime, white .....	50	" 100
Sand, white .....	100	" 117
Lime, brown .....	117	" 121
Sand and lime, white and hard .....	121	" 190
Slate, black .....	190	" 207
Slate and sand, black .....	207	" 244
Lime, white .....	244	" 255
Slate, black, hard .....	255	" 371
Sand, white, fine .....	371	" 391
Lime, white .....	391	" 400
Sand, white, fine and hard .....	400	" 476
Slate, black .....	476	" 587
Lime, brown and hard .....	587	" 697
Slate, black .....	697	" 712
✓Coal and slate .....	712	" 716
Slate, black .....	716	" 726
Sand, white, base Pottsville .....	726	" 800
Red shale, light .....	800	" 840
Lime, hard and white .....	840	" 924
Sand, white and hard .....	924	" 955
Shale, red .....	955	" 1023

OIL AND GAS WELL RECORDS (UPSHUR)

Slate, black, hard .....	1023	“	1031
Lime, white .....	1031	“	1046
Shale, black, hard .....	1046	“	1054
Lime, whitish .....	1054	“	1078
Shale, red .....	1078	“	1098
Big Lime, white, hard .....	1098	“	1190
Sand, white, hard. 22'	} Big Injun..	1190	“ 1360
Sand, red, light... 12'			
Sand, white .....136'			
Slate, black, sandy .....	1360	“	1374
Sand, white .....	1374	“	1410
Slate, light .....	1410	“	1430
Sand, white .....	1430	“	1510
Lime, white .....	1510	“	1520
Red rock .....	1520	“	1684
Sand .....	1684	“	1703
Red rock .....	1703	“	1744
Slate .....	1744	“	1770
Sand and shale (water).....	1770	“	1795
Red rock .....	1795	“	1825
Sand .....	1825	“	1834
Slate, black .....	1834	“	1866
Lime, white .....	1866	“	1878
Slate .....	1878	“	1884
Lime, white .....	1884	“	1900
Slate .....	1900	“	1927
Sand, stray, light (little gas).....	1927	“	1933
Slate .....	1933	“	1940
Slate, sandy, light .....	1940	“	1965
Slate .....	1965	“	1980
Sand .....	1980	“	2000
Slate, black .....	2000	“	2025

Bottom of well measured with steel line.

“In five foot slaty sand a showing of gas was visible, and a small quantity is yet flowing around the plug. Probably enough to supply a dozen fires. In the Big Injun Sand (1190 to 1360) a showing of something resembling asphalt was found.”

This well begins about fifteen feet below the Roaring Creek Coal, and 175 feet below the Upper Freeport seam which here underlies the Pittsburg coal bed by about 700 feet, thus giving an interval of 1890 feet between the latter stratum and the Big Injun Sand, the horizon of which is so unmistakable in the record. The well begins on the immediate top of the great Roaring Creek Sandstone which forms the line of immense pebbly cliffs

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LEWIS C

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.....1031	“	1046
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from this point to the head of the Buckhannon river, and which Mr. David White of the United States Geological Survey correlates with the top of the Pottsville formation. The thick asphaltic-like oil found in the Big Injun Sand is evidence that the strata are so fissured in this eastern region close to the mountain uplifts, that practically all of the volatile hydro-carbons have escaped. The little gas still imprisoned in these beds was struck at 1927 feet and is in the *Venango series*.

It is possible that the western portion of Upshur may hold oil and gas in commercial quantity when tested still further.

*LEWIS COUNTY WELL RECORDS.*

Lewis county lies directly west from Upshur and south from Harrison, and hence is far enough removed from the *great* anticlinals which traverse Preston, Barbour and Upshur to lie within the zone of low arches, and gentle dips so that its strata have remained unfractured and its hydrocarbons still imprisoned, except as they have been extravagantly wasted by man's negligence. Several of the largest wells in the state have each been permitted to blow 10 to 20 millions of cubic feet of natural gas into the air daily from Lewis county, for months at a time, before their owners could be induced to shut them in and prevent this frightful waste. Such inexcusable methods in operating for oil and gas call loudly for effective legislative action in order to preserve for productive purposes the great wealth of gaseous fuel with which Lewis and adjoining counties have been dowered.

The effect of structure upon the presence of oil and gas in commercial quantity is finely illustrated in Lewis county. In Monongalia, Marion, Taylor and Harrison no gas or oil pools have been found east of the Chestnut Ridge anticlinal, or even very close to its western slopes. But this arch which is so great in Fayette county, Pennsylvania, (immediately north from Monongalia) that it brings the Hamilton beds of the Devonian into the top of the mountain with dips of 25° to 30° rapidly flattens down southwestward, so that at the Cheat river in Monongalia, it elevates the Gantz Sand only to water level, while at the Valley river where its crest passes into Taylor county near Valley Falls,

	Top. Feet.	Bottom. Feet.
Sand, Gas.....	317	336
Coal, Lower Kittanning.....	348	353
Coal, Clarion.....	370	375
Unrecorded (water at 380'; 6 ballers per hour) .....	375	404
Sand, Second Cow Run.....	404	464
Sand, Salt.....	474	573
Sand, Salt.....	690	800
Sand, Salt.....	914	952
Sand, Salt.....	1012	1123
Sand, Salt.....	1128	1200
Red rock.....	1200	1225
Sand, hard, Maxton.....	1225	1252
Little Lime.....	1279	1293
Red rock.....	1306	1321
Pencil Cave.....	1321	1326
Big Lime.....	1326	1417
Sand, Big Injun.....	1417	1522
Sand, Squaw (water, 1570')... ..	1567	1619
Sand, Weir.....	1662	1772
Red rock (little gas, 1852').....	1772	1919
Sand, Fifty-foot.....	1919	1947
Sand, Thirty-foot (gas, 1961-1967').....	1947	1981
Total depth.....		1994

10" casing, 146'; 8" casing, 578'; 6½" casing, 1356'; packer set 65' from bottom; shot with 40 quarts of glycerine at 1960-1970'.

The George Burner No. 1 (58) Well, drilled along the Buckhannon River, at Sago, made a small amount of gas in the Fourth Sand. Its record, which was first published in Volume I(a), page 351, of the Survey, has been used in connection with the Sago Section, page 134, of the present Report. Concerning the result of the well, the following is quoted from the driller's log:

"In five-foot slaty sand (Fourth) a showing of gas was visible, and a small quantity is yet flowing around the plug. Probably enough to supply a dozen fires. In the Big Injun Sand (1190-1360') a showing of something resembling asphalt was found."

**Prospective Oil and Gas Areas, Meade District.**—The tests already drilled in Meade District and surrounding territory do not indicate that a large amount of gas will be found, but the following regions are indicated as the most hopeful: (1), The western portion of the District, between the Stonecoal and Frenchtown Gas Fields, might reasonably be supposed to hold a further supply of gas, as some of the sands, particularly the Fourth, have been productive in both

Barbour, Upshur & w. pt. Randolph,  
Geologic report, 1918

70025