



1 (20).

ton Mills; authority.  
 urch 6, 1909, and com-

Thickness Feet.	Total Feet.
18	18
2	20
40	60
60	120
45	165
30	195
95	290
4	294
46	340
20	360
40	400
5	405
15	420
30	450
50	500
55	555
5	560
55	615
65	680
80	760
350	1110
70	1180
50	1230
40	1270
50	1320
5	1325
35	1360
5	1365
160	1525
5	1530
30	1560
70	1630
35	1665
40	1705
10	1715
75	1890
10	1900
80	1980
60	2040
40	2080
40	2120
45	2165
15	2180

	Thickness Feet.	Total Feet.
<b>Chemung Series (1122')</b>		
Unrecorded .....	455	2635
Cherry Grove? sand.....	10	2645
Slate and shells.....	210	2855
Bradford? sand.....	20	2875
Slate and shells.....	60	2935
Sand .....	35	2970
Slate and shells.....	30	3000
Slate and shells.....	302	3302
10" casing, 240'; 8"-715'; 6 3/8"-1500'. Dry hole.		

The well starts 130 feet below the horizon of the Upper Freeport Coal and about 760 feet below the Pittsburgh bed. The correlations in parentheses are inserted by the authors. Only a slight show of oil was encountered in what appears to be the Seventh or Elizabeth sand. The Big Injun is the only sand below the Greenbrier Limestone (Big Lime) that carries water in this synclinal basin, where they all should be saturated if they were water bearing. The driller's report shows the regular sands of unusual hardness and closeness, and with no oil or gas in any formation except the slight show above mentioned.

The **Steven Tichenal No. 1 well (34)**, located in the southern point of Pleasant district, 400 to 500 feet northeast of the mouth of Muddy creek, was bored, according to R. B. Frazier of Terra Alta, a driller on the well, during 1881, who reports as follows:

"We drilled 600 feet. Could not case off the water (all fresh water). We got the best oil sand I ever saw at 347 feet. We had 14 feet of oil sand. As the hole was wet all the time we found no oil or gas and the water could not be cased off at all. We found coal at 12 feet—about three feet of it."

This well starts 30 to 40 feet below the crop of the Upper Freeport coal, so that the vein encountered at 12 feet should correlate with the Lower Freeport bed, and the good sand mentioned at 347 feet, with the Second Cow Run. The boring evidently did not quite reach down to the Maxton sand.

The **Steven Tichenal Salt Well (35)**, located 200 yards from the last well discussed, was drilled several years previous to 1881, according to the same Mr. Frazier, who reports as follows: