

LATITUDE '38°35'

2.22S
3.27W

82° 05' LONGITUDE

7.5 OGIS topo location

7.5' loc _____	15' loc _____
_____	(calc.) _____

Company Federal Oil Co.

Farm Butler 1

Quad _____

County Mason

District Hannan

WELL LOCATION MAP

File No. 053-70003

26 in Mason
County Report

70003

Hennan District, Mason County, W. Va.
Federal Oil Co.
Completed in 1904.

Near mouth of Knife Branch.

Elevation, 595' L.

10" casing, 300'; 8", 1485'; 6", 1850'.

	Top.	Bottom.
Conductor	0	20
Sand	430	460
Slate	460	540
Sand	540	580
Slate	580	625
Sand	625	655
Slate	655	660
Sand	660	670
Slate	670	675
Sand (Homewood)	675	800
Sand, broken	800	1080
Slate, black	1080	1210
Sand	1210	1480
Big Line	1480	1540
Koerner Sand (water, 1540') (little gas, 1545')	1540	1565
Big Injun Sand	1565	1850
Slate	1850	2060
Berea Sand (little gas)	2060	2085
Black limestone	2085	2105
Slate, to bottom	2105	2220

	Thickness. Feet.	Total. Feet.
Big Lime	190	1220
Shale (Big Injun)	100	1320
Sand	3	1323
Shale	30	1353
Sand	8	1361
Slate and shale	89	1450
Sand, full of water ("Squaw")	23	1473
Slate	261	1734
Sand, oil and gas (Berea)	33	1767
Slate and lime	20	1787
Bastard sand, more oil	5	1792
Slate to bottom.....	53	1845

This well starts at the bottom of the Pittsburgh coal and thus is quite important in revealing the thickness of the several series near the Ohio river.

The interval between the Pittsburgh coal and the Berea sand appears to be 1,734 feet.

The Butler Well.

Record of the Butler well (M-26), located on Guyan creek near the mouth of Knife branch, Hannan district, Mason county, and drilled by the Federal Oil Company in 1904. Elevation of surface 595 feet A. T. (Aneroid). Record furnished the Survey by C. C. Averill, Milton, West Virginia:

	Feet. Thickness	Feet. Total.	
Conductor	20	20	Conemaugh Series. 460'
Unrecorded	410	430	
Sand	30	460	
10" Casing to 300 feet.			
Slate	80	540	Allegheny Series. 215'
Sand	40	580	
Slate	45	625	
Sand	30	655	
Slate	5	660	
Sand	10	670	
Slate	5	675	
Sand (Homewood)	125	800	Pottsville Series. 805'
Sand, broken	280	1080	
Slate, black	130	1210	
Sand	270	1480	
8" Casing to 1485'			
Big Lime	60	1540	
Water at 1540'			
Keener Sand	25	1565	

	Thickness. Feet.	Total. Feet.
Little gas at 1545'		
Big Injun	285	1850
6 5-8" Casing to 1850'		
Slate	210	2060
Berea Sand (Little Gas)	25	2085
Black limestone	20	2105
Slate to bottom	115	2220

The above record begins 20 feet below the Pittsburgh coal horizon and extends to 135 feet below the Berea sand. No oil was found in any of the sands, but little gas was found in the Keener sand and in the Berea.

The interval between the bottom of the Pittsburgh sandstone and the Berea sand appears to be 2,080 feet, as compared with 1,734 feet in the Austin well, located north 10 west, 19 miles from this well, showing a thickening of 346 feet.

The James Swan Well.

Record of the James Swan well (M-30), located on the Ohio river, Robinson district, near the foot of Eight Mile Island, land of James Swan; well put down by Messrs. Spilman, Hensley, Stiles and Kelley, in 1900; the record being furnished the Survey by Mr. James Hensley:

	Thickness Feet.	Total. Feet.
Conductor	58	58
Black and white, and red shales	492	550
Caves	165	715
White sand	10	725
Black sand	85	810
White and black sand	10	820
White sand	50	870
Coal, Lower Kittenning?	6	876
White sand and slate, hard, settles quickly	84	960
Top of Big Salt sand	62	1022
Brown slate	13	1035
White sand, hard	70	1105
Slate	2	1107
White sand	23	1130
Black slate, hard	120	1250
Hard and fine slate	40	1290
Limestone	20	1310
Slate and sand	10	1320
Limestone	25	1345