

New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure 1 IN 500'  
 Source of Elevation U.S.G.S. Elev 665.98' BRIDGE ABUTMENT TUPPERS CREEK

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company HARRY A. HOLTOM  
 Address 308 HIGH STREET WORTHINGTON, OHIO, 43085  
 Farm S. J. PAULEY  
 Tract \_\_\_\_\_ Acres 65.41 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 714.0'  
 Quadrangle CHARLESTON  
 County KANAWHA District POCA  
 Engineer N. G. Lyster  
 Engineer's Registration No. 1832  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 6-28-69 Scale 1" = 400'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. KAN-2422

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Deep Well (Newburg)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

County Charleston  
Well No. KAN-2422

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Harry A. Holtom  
Address 808 High St., Worthington, Ohio  
Drillerman S. J. Pauley Acres 63  
Location (waters) Branch of Tappers Creek  
Well No. #1 Elev. 714 G. L.  
District Poca County Kanawha  
The surface of tract is owned in fee by S. J. Pauley et al  
Address Charleston, West Va.  
Mineral rights are owned by Harry A. Holtom & Cities  
Service Oil Company Address As above  
Drilling commenced 7/17/69  
Drilling completed 7/27/69  
Date Shot Fracked From 5563 To 5614

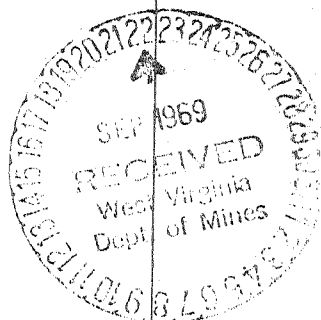
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13.5/8"	120'	120'	
10			Size of
8 5/8"	1809'	1809'	
6 3/4"			Depth set
5 1/2"	5563	5563	
4 1/2"			
3			Perf. top
2 3/8" Tub.		5579'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow --- /10ths Water in. --- Inch  
/10ths Merc. in. --- Inch  
Volume --- Cu. Ft.  
Block Pressure --- lbs. --- hrs.  
bbls., 1st 24 hrs.

Attach copy of cementing record.  
CASING CEMENTED 5 1/2" SIZE 5563 No. FL. 7/25/69 Date  
Amount of cement used (bags) 175 cubic foot  
Name of Service Co. Dowell  
COAL WAS ENCOUNTERED AT --- FEET --- INCHES  
--- FEET --- INCHES --- FEET --- INCHES  
--- FEET --- INCHES --- FEET --- INCHES

WELL FRACTURED (DETAILS) Frack w/500 gallons MCA, 1143 B.W & 30,000 # 20/40 mesh sand  
Average Injection Rate 24 BPM @ 4700#  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 43 MMCF GPD 43,000 MCF GPD 43,000.000  
BLOCK PRESSURE AFTER TREATMENT 1647 HOURS  
Fresh Water --- Feet --- Salt Water --- Feet  
Producing Sand --- Depth ---

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Jun Sand	Gray	Soft	1685	1745 - 60	Sho of gas & water		
rea	Brown	Hard	2363 'Q'	2375 - 12			
vonian Sh.	Gray	Soft	2375	4735	Gas	5598	12.5 MM Natural
andaga	Cream	Hard	4735	4825 - 70			
iskany	White	Soft	4825	4900 - 75			
lderberg	White	Hard	4800	5598			
wburg	Cream	Hard	5598	5614 - 10			
			5598	5598			
			714	4825			
			4884	773			



Date 9/7/69  
Approved By: Harry A. Holtom  
Owner