



New Location.    
 Drill Deeper. ....    
 Redrill. ....    
 Abandonment. ....

75' 00"   
 2825 39' 20"   
 1.60 W 78° 37' 30" 2.71 S.   
 calc 15' 00" 3.68 W.   
 2.825   
 3.83 W

8 WC (F-17)

Company	JOYCE PIPE LINE COMPANY		
Address	% MR. A. B. CUMMINGS SHANKS, W. VA.		
Farm	JAMES HAGGERTY		
Tract	Acres	72	Lease No.
Well (Farm) No.	1	Serial No.	
Elevation (Spirit Level)	1250'	August 75	quart
Quadrangle	HANGING ROCK - SC		
County	HAMPSHIRE	District	SHERMAN
Engineer	W. J. Galloway		
Engineer's Registration No.	3148		
File No.	88	Drawing No.	
Date	7-20-61	Scale	1" = 400'

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

WELL LOCATION MAP  
FILE NO. HAMP-9

(Converted to storage well)  
 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.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Hanging Rock

Permit No. HAM-9

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Joyce Pipeline Company  
Address Box E Andover, New York  
Farm Haggerty Acres 72  
Location (waters) \_\_\_\_\_  
Well No. 1 Elev. 1250  
District Sherman County Hampshire  
The surface of tract is owned in fee by Mr. B. Orndorff  
Address Augusta, W. Va.  
Mineral rights are owned by Mr. B. Orndorff & M. E. Anderson  
Address Augusta, W. Va.  
Drilling commenced 7, 22, 61  
Drilling completed 2-19-62  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 350,000 Cu. Ft.  
Rock Pressure 2020 lbs. 1 hr. hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED Dumped 500 gal. of Dowell MCA (15% acid)  
WELL FRACTURED 23,100 gals. of water and 30,000 lbs. of 20-40 mesh Ottawa sand

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>Parmco</u>
13			Size of <u>10"</u>
10	<u>32'</u>	<u>-</u>	Depth set <u>1100</u>
<del>8-5/8</del>		<u>1100'</u>	
6 3/4			
5 3/16			
<u>4-1/2"</u>		<u>5205'</u>	Perf. top <u>5106</u>
2			Perf. bottom <u>5189</u>
Liners Used	<u>----</u>		Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8-5/8 SIZE 1100' No. Ft. 11/17/61 Date  
4-1/2" 5205 1/8/62

COAL WAS ENCOUNTERED AT NONE FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT 1,300,000 c.f.d.

ROCK PRESSURE AFTER TREATMENT 2020

Fresh Water above 1100 Feet Salt Water \_\_\_\_\_ Feet

Formation & Lithology	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
UPPER & MIDDLE DEVONIAN			surface	4950			
Shale, Mudstone & sandstone	Tan & gray	soft	surface	1260			
Shale	gray, brown	soft	1260	2440			
Shale	green	soft	2440	2870			
Shale	dk. gray	soft	2870	2990			
Sandstone & Shale	gray	hard	2990	3100			
Shale	gray	soft	3100	4400			
Sandstone	gray	hard	4400	4415			
Shale	gray	soft	4415	4715			
Limestone	gray	hard	4715	4755			
Shale	gray	soft	4755	4850			
LOWER DEVONIAN							
✓ Marcellus Sh.	dk. gray	soft	4850	4930			
✓ Needmore Sh.	gray	hard	4930	5088	(shale & limestone)		
✓ Oriskany Sand	white	v. hard	5088	5230 T.D.			

(over)

