

Minimum Error of Closure 1 in. in 200
 Source of Elevation Elev. at Bridge across Yellow Spring
Run: 566

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.

Fracture
 New Location
 Drill Deeper
 Abandonment -9-6-70

Signed: [Signature]
 Squares: N S E W

Map No. _____

Company PAUL G. BENEDUM
 Address Benedum-Trees Bldg. Pittsburgh, Pa
 Farm Ruth X. Kysela
 Tract _____ Acres 175 Lease No. _____
 Well (farm) No. One Serial No. _____
 Elevation (Spirit Level) 761'
 Quadrangle Mancock WC
 County Morgan District Alien
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date June 27, 1970 Scale 1" = 600'

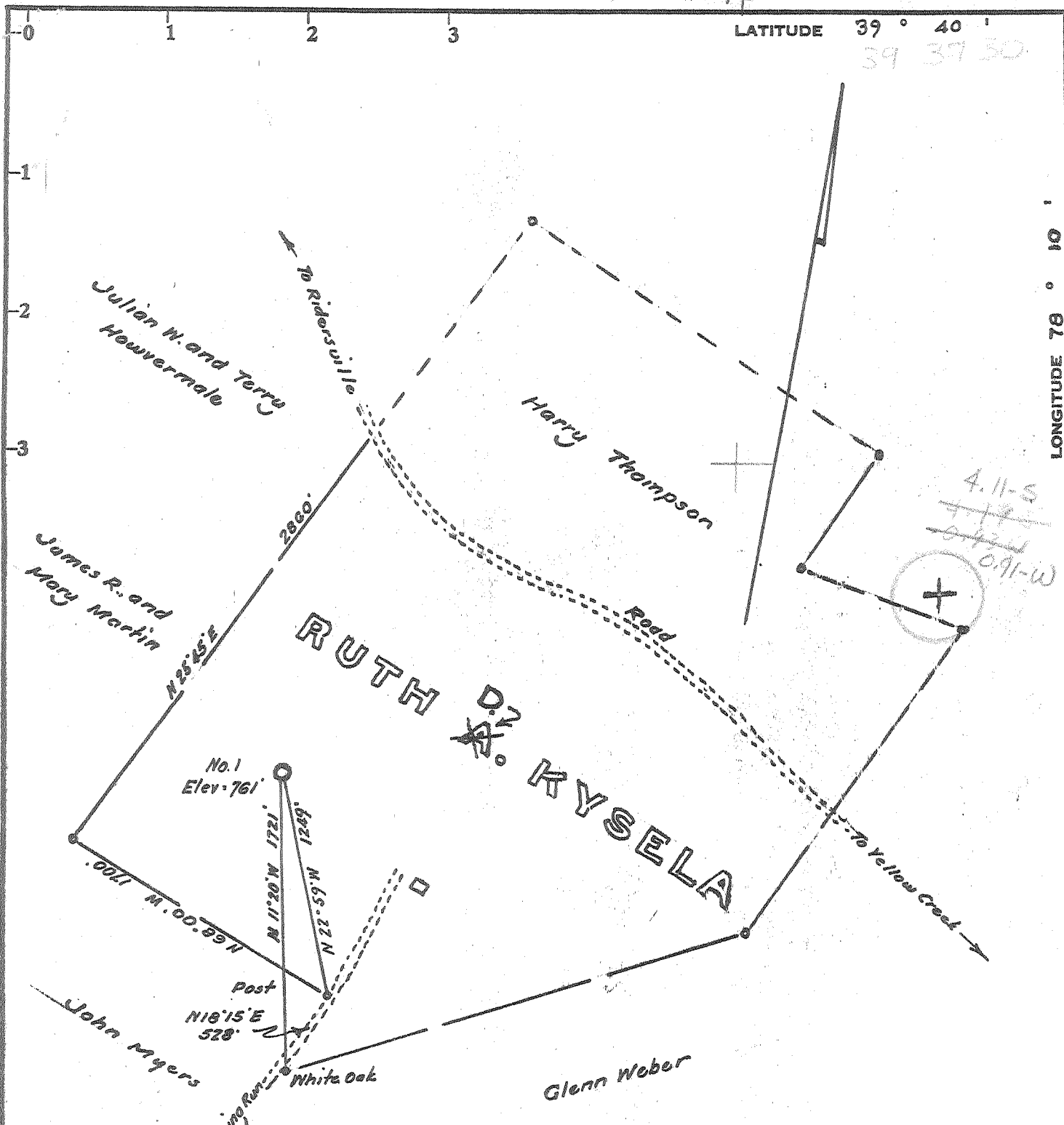
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. MOR-5-P

+ 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.



Minimum Error of Closure 1 in. in 200

Source of Elevation Elev. at Bridge across Yellow Spring

Run = 566'

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Map No.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

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 Address Benedum - Treas Bldg Pittsburgh, Pa
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 Tract _____ Acres 175 Lease No. _____
 Well (Farm) No. One Serial No. _____
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 Quadrangle Hancock WC
 County Morgan District Alien
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date June 27, 1970 Scale 1" = 800'

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

WELL LOCATION MAP

FILE NO. MOR-5

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SEP 18 1970

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 4

Quadrangle Hancock

Permit No. Mor.5

WELL RECORD

Oil or Gas Well DRY
(KIND)

Company Paul G. Benedum
Address 1500 Benedum Trees Bldg., Pgh., Pa. 15222
Farm Ruth D. Kysela Acres 175
Location (waters) Yellow Spring Run
Well No. 1 Elev. 761
District Allen County Morgan
The surface of tract is owned in fee by Ruth D. and Frank J. Kysela Address Chardon, Ohio
Mineral rights are owned by Ruth D. and Frank J. Kysela Address Chardon, Ohio
Drilling commenced July 22, 1970
Drilling completed September 6, 1970
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Dry Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED
WELL FRACTURED

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
18 11 3/4	43	43	Size of
8 5/8	2476	2476	Depth set
6 5/8			
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8 SIZE 2476 No. Ft. 8-7-70 Date

COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 50, 110 Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand, clay	Red	Soft	0	50	fresh wtr	50	
Sand	Clear/grey	Medium	50	100			
Sand, 80% silt 20%	Light grey	Soft	100	120	fresh wtr	110	little
Sand	Grey	Hard	120	160			
Shale	Light grey	Soft	160	300			
Silt	Grey	Medium	300	340			
Shale	Grey	Soft	340	400			
Siltstone	Grey	Medium	400	670			
Sand & Silt	Light	Hard	670	700			
Silt	Med. Grey	Medium	700	1200			Sandy in str
Sand	Dark Grey	Hard	1200	1250			
Silt	Grey	Medium	1250	1320			
Sandy Silt	Grey	Medium	1320	1380			

(over)

OCT 5 1970

Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks	
Silt	Grey	Medium	1380	1560				
Sand	Frosted	Hard	1560	1610			Lincy	
Siltstone	Dk Grey	Medium	1610	2505				
Shale	Grey	Medium	2505	3200			Silty	
Silt	Grey to Dk. Grey	Medium	3200	4400			Shaley S streaks	
Silt	Black to Dk. Grey	Medium	4400	4875			Pyritic at 4735	
Shale, Silty	Dk. Grey	Medium	4875	5405				
Shale, Silty	Black	Medium	5405	5685				
Shale	Lt. Grey	Medium	5685	5860				
Shale	Black	Soft	5860	6100				
Shale	Med Gry	Medium	6100	6265				
Shale	Dk. Grey	Medium	6265	6425			Silty	
Shale, Silty	Darker to Black	Medium	6425	6590				
Shale	Grey and Black	Marcellus	6590	6657				
Total Depth				6657	(455)			
							6657	
							761	
							5896	
<p>Marcellus Fm ? @ TD</p> <p>MRCL 344</p> <p>No Oriskany rptd.</p>								

Date September 14, 1970

APPROVED PAUL G. BENEDUM, Owner

By A. H. FORBES, JR., (Title) Geologist

ORISKANY DATA FROM MORGAN COUNTY GAS WELLS

Permit	Quad.	Oriskany Top	Thickness
1.....	Stotlers.....	NOT DRILLED TO Do	
2.....	NOT DRILLED		
3.....	Paw Paw.....	-4167.....	146+
4.....	Paw Paw.....	-3983.....	164+
5.....	Stotlers.....	Below -5896....	Did not reach Do
6.....	Paw Paw.....	-5837.....	26.....Faulted
7.....	NOW PERMIT NO. 9		
8.....	Paw Paw.....	-5161.....	???.....Stopped in Do
9.....	Paw Paw.....	-4064.....	150