



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

APR 2 - 1982

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

JUN - 3 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE March 3, 1982

Surface Owner J. F. Riggs  
Address Pullman, W.Va.

Company Carnegie Natural Gas Company

Mineral Owner Cline Riggs etal.  
Address Pullman, W.Va.

Address 3904 Main St. Munhall, Pa. 15120

Farm J. F. Riggs Acres 197.8

Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_

Location (waters) Chevaux De Rris Creek

Well No. 5-1866 Elevation 1210'

Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

District Union County Ritchie

Quadrangle Pullman

**THIS PERMIT MUST BE POSTED AT THE WELL SITE.**  
**ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,**  
**ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY**  
**APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE**  
**IF OPERATIONS HAVE NOT COMMENCED BY 2-8-83 ADDRESS \_\_\_\_\_**  
**BY [Signature] PHONE 655-7398**

INSPECTOR Doe Maze  
TO BE NOTIFIED  
ADDRESS \_\_\_\_\_  
PHONE 655-7398

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated April 11, 1923 by J. F. Riggs etal. made to Carnegie Natural Gas Company and recorded on the 4th. day of May 1923, in Ritchie County, Book 47 Page 446

NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Very truly yours, Carnegie Natural Gas Company  
(Sign Name) [Signature]  
Well Operator  
Address 3904 Main Street,  
of Munhall, Pa. 15120  
Well Operator Munhall, Pa. 15120  
City or Town  
State \_\_\_\_\_

State 04/19/2024

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-085-5677

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Hugh K. Spencer NAME W. L. Yoho - Div. Supt.  
 ADDRESS West Union, W.Va. 26456 ADDRESS Toll Gate, W.Va. 26442  
 TELEPHONE 873-1602 TELEPHONE 659-2921  
 ESTIMATED DEPTH OF COMPLETED WELL: 5350' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Alexander  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u>11-3/4"</u>	<del>300</del> <u>400'</u>	<del>300</del> <u>400'</u>	<u>CTS</u>
9 - 5/8			
8 - 5/8	<u>2100'</u>	<u>2100'</u>	<u>Cemented to surface</u>
7			
5 1/2			
4 1/2	<u>5350'</u>	<u>5350'</u>	<u>2500' to fillup</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS ~~363~~ FEET SALT WATER 463 FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.


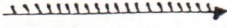










The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

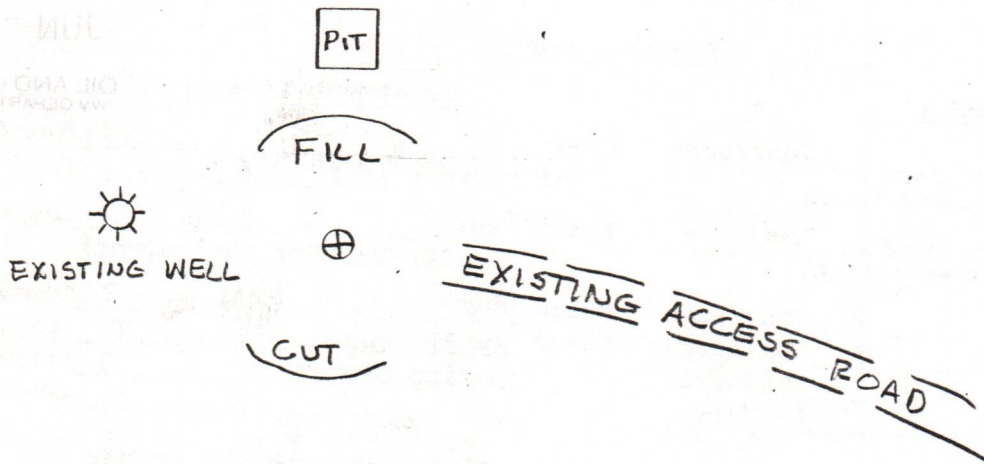
We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code. 04/19/2024

\_\_\_\_\_  
For Coal Company  
\_\_\_\_\_  
Official Title

WELL SITE PLAN

Legent:	Property Boundry 	Diversion 
	Road 	Spring 
	Existing Fence 	Wet Spot 
	Planned Fence 	Building 
	Stream 	Drain Pipe 
	Open Ditch 	Waterway 

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



COMMENTS: Well to be drilled on existing access road. Road will be maintained after well is completed.

Signature M. L. yaho Address Toll Gate, WV, 26442  
 Phone Number 304-659-2921

Please request landowners cooperation to protect new seeding for one growing season.

04/19/2024

DATE February 11, 19 82  
 WELL NO. 5-1866  
 API No. 47 085 5677  
 State County Permit

STATE OF WEST VIRGINIA  
OFFICE OF OIL & GAS

Company Name Carnegie Natural Gas  
 Address 3904 Main St., Munhall, PA 15120  
 Telephone 412-462-7121  
 Landowner J. F. Riggs

Designated Agent W.L. Yoho, Div. Supt.  
 Address Toll Gate, WV 26142  
 Telephone 304-659-2921  
 Soil Cons. District Little Kanawha

ReVegetation to be carried out by Same W.L. Yoho (Agent)  
 This plan has been reviewed by Little Kanawha SCD. All corrections  
 and additions become a part of this plan 3-17-82 Janett Newton  
 (State) (SCD Agent)

Access Road	Location
Structure <u>NONE</u> (A)	Structure <u>NONE</u> (1)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material <b>RECEIVED</b>
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure <u>APR 2 - 1982</u> (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual <b>OIL AND GAS DIVISION WV DEPARTMENT OF MINES</b>



All structures should be inspected regularly and repaired if necessary. **RECEIVED**

Revegetation JUN - 3 1982

Treatment Area I	Treatment Area II
Lime _____ Tons/acre	Lime _____ Tons/acre
or correct to pH <u>6.5</u>	or correct to pH <u>6.5</u>
Fertilizer <u>1000</u> Lbs/acre	Fertilizer <u>1000</u> Lbs/acre
(10-20-20 or equivalent)	(10-20-20 or equivalent)
Mulch <u>Hay</u> <u>2</u> Tons/acre	Mulch <u>Hay</u> <u>2</u> Tons/acre
Seed* <u>Ky 31 Fescue</u> <u>35</u> Lbs/acre	Seed* <u>Ky 31 Fescue</u> <u>35</u> Lbs/acre
<u>Ladino Clover</u> <u>5</u> Lbs/acre	<u>Ladino Clover</u> <u>5</u> Lbs/acre
_____ Lbs/acre	_____ Lbs/acre

\* Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle Pullman

Legend:  Well Site  
 Access Road



04/19/2024

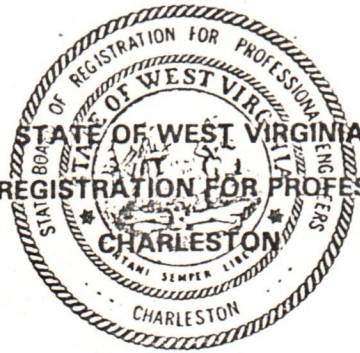
ROBERT E. SCHWIDT, P.E.  
FAIRMONT  
President

ROBERT B. SCOTT, P.E.  
ELKINS

DR. A.E. McCASKEY, P.E.  
HUNTINGTON

DR. KENNETH H. MEANS, P.E.  
MORGANTOWN

STAFFORD E. THORNTON, P.E.  
MONTGOMERY  
Secretary



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

a-10

RECEIVED

608 Union Building  
Charleston, W.Va. 25301  
TELEPHONE 348-3554

Temporary Permit No. 82-7

JUN - 3 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

To: Duane R. Dishong  
Carnegie Natural Gas Co.  
3904 Main St.  
Munhall, PA 15120

P.E. No. 027468E

The West Virginia State Board of Registration for Professional Engineers, having verified your current registration in Pennsylvania does hereby authorize you to practice engineering in West Virginia for the duration your application is pending with this Board. Temporary permits are issued in accordance with Chapter 30, Article 13, Section 8 (b).

You may use your Pennsylvania seal and beneath your signature print:

"Authorized for use in  
West Virginia by Temporary  
Permit No. 82-7."

This authorization issued May 25, 1982.

By:

  
Stafford E. Thornton  
Secretary

04/19/2024

a-11

CARNEGIE NATURAL Gas COMPANY 3904 Main Street, Munhall, Pa. 15120



Phone 462-7121

October 13, 1982

Ms. Charlotte Milam  
West Virginia Department of Mines  
Oil and Gas Division  
1615 Washington Street, East  
Charleston, WV 25311

Dear Charlotte:

Pursuant to your notice dated September 30, 1982, please be advised that the reclamation plans and plats for GIL-3915 and RIT-5677 have been forwarded to the proper surface owners. The corrected surface owners for the above mentioned locations are as follows:

GIL-3915: Harvey Beall  
Route 1, Box 330-G  
Elkins, WV 26241

RIT-5677: Flossie M. Riggs  
Route 1, Box 26  
Pennsboro, WV 26415

Very truly yours,

CARNEGIE NATURAL GAS COMPANY

*Kenneth G. Dunay*

Kenneth G. Dunay  
Staff Geologist

KGD:sm



DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Date	Perfs	Sacks Sand	Bbls. Water	Bbls. Acid
9-16-82	5123' - 5222'	400	418	12
9-16-82	4310' - 4602'	329	436	8
9-16-82	3947' - 4106'	291	340	5
9-16-82	2947' - 3537'	742	710	17

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay		Red	0	15	
Shale		Gray	15	40	
Red Rock			40	85	
Sjhale		Gray	85	125	
Red Rock		Red	125	132	
Shale		Gray	132	137	
Red Rock		Red	137	140	
Sand		White	140	150	
Shale		Gray	150	155	
Sand & Shale		Gray	155	175	
Sand		Brown	175	190	
Red Rock & Shale		Red & Gray	190	195	
Shale		Gray	195	210	
Red Rock		Red	210	220	
Shale		Gray	220	226	
Red Rock		Red	226	230	
Shale		Gray	230	238	
Sand		Brown	238	240	
Sandy Shale		Gray	240	260	
R. & R. & Shale		Red & Gray	260	285	
Sand		Gray	285	320	
Coal		Black	320	324	
Sand		Gray	324	350	
Red Rock & Shale		Red & Gray	350	466	
Sandy Shale		Gray	466	532	
Sand		Gray	532	575	
Shale		Gray	575	840	
Sand		Gray	840	860	
Shale		Gray	860	880	
Sand		Gray	880	1200	
Shale		Gray	1200	1257	
Coal		Black	1257	1263	
Shale		Gray	1263	1310	
Sand		White	1310	1475	
Shale		Gray	1475	1485	
Sand		White	1485	1519	
Sand & Shale		Gray	1519	1690	
Shale		Gray	1690	2030	
Lime & Sand		Gray	2030	2064	

(Attach separate sheets as necessary)

CARNEGIE NATURAL GAS Co.

Well Operator

By: Roy J. Ludwig SR. Geol. 04/19/2024  
Date: 2-21-83

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE

IV-35  
(Rev 8-81)

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FEB 24 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date January 17, 1983  
Operator's  
Well No. 5-1866  
Farm J. F. Riggs  
API No. 47 - 085 - 5677

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow x /)

LOCATION: Elevation: 1210' Watershed Chevaux De Frise Creek  
District: Union County Ritchie Quadrangle Holbrook N. W.

COMPANY Carnegie Natural Gas Company  
ADDRESS 800 Regis Ave. Pittsburg, Pa. 15236  
DESIGNATED AGENT W. L. Yoho  
ADDRESS Toll Gate, W.Va. 26442  
SURFACE OWNER J. F. Riggs  
ADDRESS Pullman, W.Va.  
MINERAL RIGHTS OWNER Celine Riggs  
ADDRESS Pullman, W.Va.  
OIL AND GAS INSPECTOR FOR THIS WORK Sam Hershman ADDRESS Smithville, W.Va.  
PERMIT ISSUED April 2, 1982  
DRILLING COMMENCED August 9, 1982  
DRILLING COMPLETED August 15, 1982  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up ft.
Size 20-16 Cond.			
13-10"	417	417	417
9 5/8			
8 5/8	2075	2075	2075
7			
5 1/2			
4 1/2	5290	5290	2590
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5350 feet  
Depth of completed well 5290 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Warren, Fourth Alexander, Bradford, Balltown Pay zone depth 2947'-5231' feet  
Gas: Initial open flow 18 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 146 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 900 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth 04/19/2024 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)



47-085-5677

(CONT'D)

*Rgl.*

2-21-83

Pencil Cave	Gray	2064	2066
Big Lime	White	2066	2167
Shale	Gray	2167	2198
Big Injun	Red	2198	2225
Shale	Gray	2225	2420
Sand	Gray	2420	3035
Shale	Gray	3035	3935
Sand	Gray	3935	4335
Shale	Gray	4335	4590
Sand	Gray	4590	4650
Sand	Gray	4770	4864
Shale	Gray	4864	5328

T.D.

5329'

**RECEIVED**

FEB 24 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

R 17-5677

04/19/2024

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

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AUG 13 1982

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Permit No. 85-5677

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Carnegie Nat. Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>J. F. Riggs</u>	16			Kind of Packer _____
Well No. <u>5-1866</u>	13			
District <u>Union</u> County <u>Rit</u>	10			Size of _____
Drilling commenced <u>8-9-82</u>	8 1/4			
Drilling completed _____ Total depth _____	6%			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Mike McVickers - Ernie Coyer - Willard Westfall - Mike Ware  
Contractor S. W. Jack Rig # 2 tool Puster - Hank Snow

Remarks: Ran 416.95' feet of 11 3/4 casing - used 205 sacks  
Cemented ~~to~~ by Halliburton - Plug down at 5:20 P.M.

8-10-82  
DATE

Samuel W. Hersman 04/19/2024  
DISTRICT WELL INSPECTOR



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

RECEIVED

MAY 20 1983

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5677

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Carnegie Nat. Gas

Address \_\_\_\_\_

Farm J. F. Riggs

Well No. 5-1866

District Union County Ritchie

Drilling commenced \_\_\_\_\_

Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_

Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_

Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch

Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.

Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet

Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_

NAME OF SERVICE COMPANY \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: Status Report  
Location partly reclaimed - Part reclaimed  
Can not release  
API # on well ready

5-18-83

DATE

Samuel N. Hays  
 DISTRICT WELL INSPECTOR

04/19/2024



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

RECEIVED

SEP 13 1983

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5677

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Carnegie Natural Gas  
 Address \_\_\_\_\_  
 Farm F.M. Riggs  
 Well No. 5-1866  
 District Union County Pitcher  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: Final Inspection  
Reclamation complete  
OK to Release

9-8-83  
DATE

Samuel N. Harrison  
04/19/2024  
DISTRICT WELL INSPECTOR





State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

September 16, 1983

Carnegie Natural Gas Company  
800 Regis Avenue  
Pittsburgh, Pa. 15236

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
RIT-5671	W. M. Drummond, #4-1860	Clay
RIT-5677	J. F. Riggs, #5-1866	Union

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

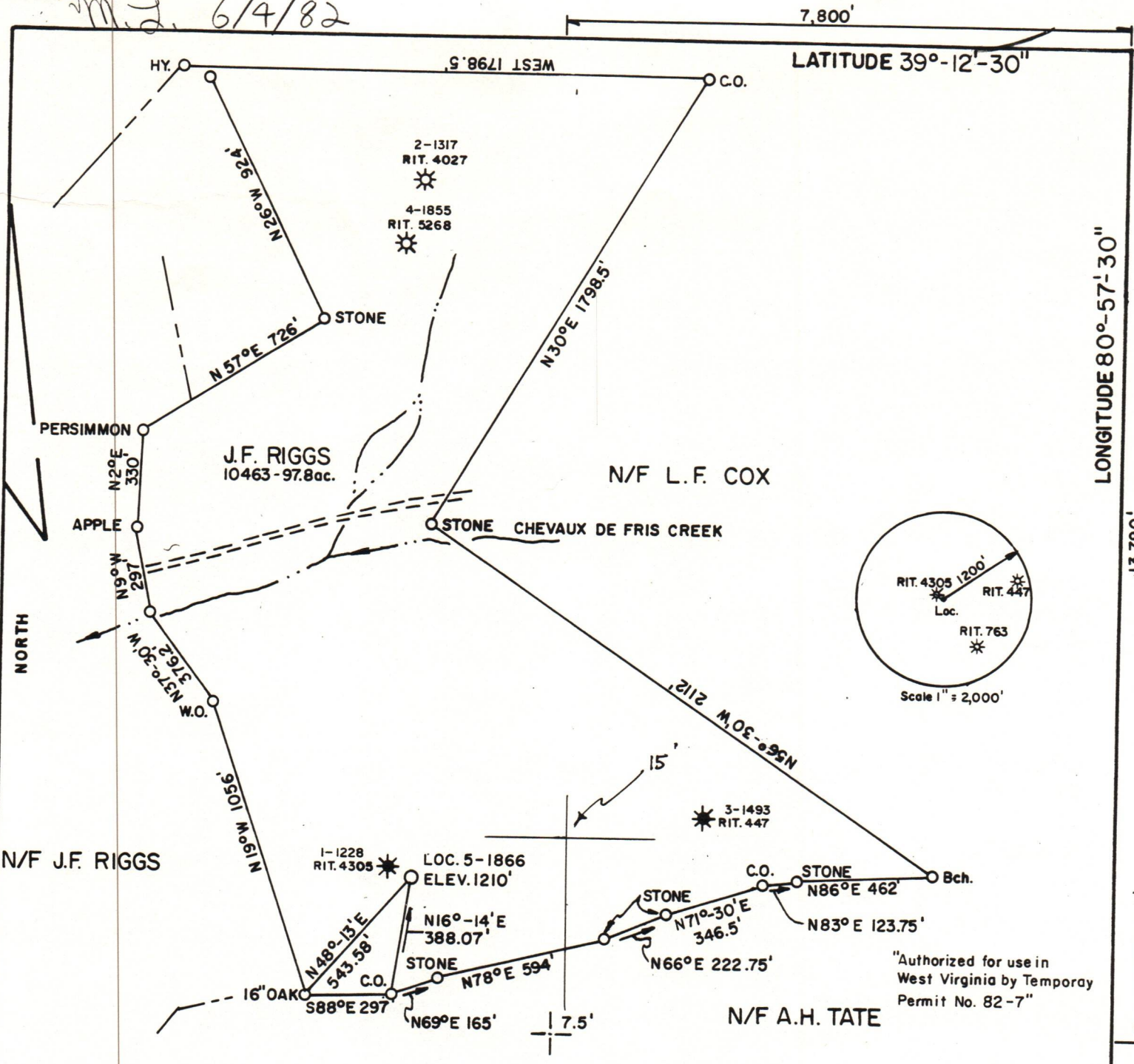
Very truly yours,

Theodore M. Streit, Administrator  
Office of Oil & Gas-Dept. Mines

04/19/2024



M.J. 6/4/82

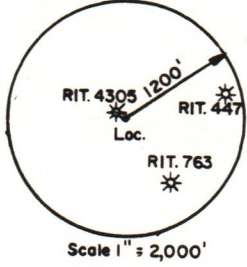


7,800'

LATITUDE 39°-12'-30"

LONGITUDE 80°-57'-30"

13,790'



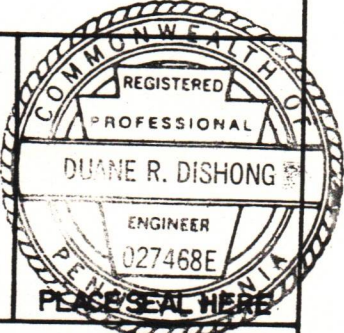
N/F J.F. RIGGS

N/F L.F. COX

N/F A.H. TATE

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1' IN 200'  
 PROVEN SOURCE OF ELEVATION INTERSECTION OF FIVE FORKS ELEV. = 1075

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Duane R. Dishong  
 R.P.E. 027468 E L.L.S. \_\_\_\_\_  
 W.Va. Temporary permit # 82-7



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE FEB. 10, 19 82  
 OPERATOR'S WELL NO. 5-1866  
 API WELL NO. \_\_\_\_\_  
 STATE 47 COUNTY 085 PERMIT 5677

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1210' WATER SHED CHEVAUX DE FRIS CREEK  
 DISTRICT UNION COUNTY RITCHIE  
 QUADRANGLE PULLMAN  
 SURFACE OWNER J.F. RIGGS ACREAGE 197.8  
 OIL & GAS ROYALTY OWNER CLINE RIGGS, et. al. LEASE ACREAGE 97.8 04/19/2024  
 LEASE NO. 10463  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH: 5350'  
 WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT W.L. YOHO, SUPERINTENDENT  
 ADDRESS 3904 MAIN STREET ADDRESS TOLL GATE, W. VA., 26442  
 MUNHALL, PA. 15120