

RECEIVED

JAN 25 1985



1) Date: January 23, 1985  
 2) Operator's Well No. Imperial #21  
 3) API Well No. 47 - 039 - 4116  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIV.  
 DEPT. OF MINES

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 1437 Watershed: Cabin Creek  
 District: Cabin Creek County: Kanawha Quadrangle: Eskdale
- 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roland C. Baer, Jr.  
 Address P. O. Box 2587 1100 Address P. O. Box 2587  
 Charleston, WV 25329 Charleston, WV 25329
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Carlos Hively  
 Address 223 Pinch Ridge Rd.  
 Elkview, WV 25071
- 9) DRILLING CONTRACTOR:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate  /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 5990 feet
- 13) Approximate trata depths: Fresh, 860 feet; salt, 1760 feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No  /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	9 5/8"	SMLS	32	X		1200'	1200'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required
Tubing									By Rule 15.01
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-039-4116

January 25, 1985  
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires January 25, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: 5	Agent: MH	Plat: MH	Casing: MH	Fee: 1471
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Margaret J. Hesse  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File 09/29/2023





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OIL & GAS DIV.  
DEPT. OF MINES

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1. PROPOSED WELL WORK: [Blank]  
2. LOCATION: [Blank]  
3. WELL OPERATOR: [Blank]  
4. ADDRESS: [Blank]  
5. ADDRESS: [Blank]  
6. ADDRESS: [Blank]  
7. ADDRESS: [Blank]  
8. ADDRESS: [Blank]  
9. ADDRESS: [Blank]  
10. ADDRESS: [Blank]  
11. ADDRESS: [Blank]  
12. ADDRESS: [Blank]  
13. ADDRESS: [Blank]  
14. ADDRESS: [Blank]  
15. ADDRESS: [Blank]

FORMATION	THICKNESS (feet)	LOG CORRELATION	PERMITS	REMARKS
Devonian Shale <td>1200'</td> <td>X</td> <td></td> <td></td>	1200'	X		
Devonian Shale <td>2400'</td> <td>X</td> <td></td> <td></td>	2400'	X		
Devonian Shale <td>3900'</td> <td>X</td> <td></td> <td></td>	3900'	X		
Devonian Shale <td>400-400' cts</td> <td></td> <td></td> <td></td>	400-400' cts			

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_



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2) Operator's Well No. Imperial #21  
3) API Well No. 47 - 039 - 4116  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OFFICE OF OIL & GAS  
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

5 (i) COAL OPERATOR None  
Address \_\_\_\_\_

(i) Name Imperial Coal Company  
Address c/o Fredrick L. Thomas, Jr.  
President

5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Imperial Coal Company  
Address c/o Fredrick L. Thomas, Jr.  
President

(ii) Name P. O. Box 273  
Address Charleston, WV 25321

Name P. O. Box 273  
Address Charleston, WV 25321

(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name None  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No X

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

R. H. Hess  
this 23 day of January, 1985.  
My commission expires 8/13, 1991.

WELL OPERATOR Allegheny & Western Energy Corporation

By RH Hess  
Its President  
Address P. O. Box 2587  
Charleston, WV 25329  
Telephone (304) 343-4327

Darryl E. Krupp  
Notary Public, Kanawha County,  
State of West Virginia

RECEIVED  
JAN 23 1985  
OIL & GAS DIV.  
DEPT. OF MINES

09/29/2023



I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
Farmout from:				
Columbia Gas Transmission Corp.		1/8	Recorded	5-11-78
United Fuel Gas Co.	Imperial Coal Co.	1/8	1060	189



**RECEIVED**

JAN 21 1985

**OIL & GAS DIV.  
DEPT. OF MINES**



1) Date: January 23, 19 85  
 2) Operator's Well No. Imperial #21  
 3) API Well No. 47 State 039 County Permit

**STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil        / Gas X /  
 B (If "Gas", Production X / Underground storage        / Deep        / Shallow X /)
- 5) LOCATION: Elevation: 1437 Watershed: Cabin Creek  
 District: Cabin Creek County: Kanawha Quadrangle: Esdale
- 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roland C. Baer, Jr.  
 Address P. O. Box 2587 Address P. O. Box 2587  
Charleston, WV 25329 Charleston, WV 25329
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Carlos Hively  
 Address 223 Finch Ridge Rd.  
Elleville, WV 25071
- 9) DRILLING CONTRACTOR: Name         
 Address
- 10) PROPOSED WELL WORK: Drill X / Drill deeper        / Redrill        / Stimulate X /  
 Plug off old formation        / Perforate new formation X /  
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale  
 12) Estimated depth of completed well, 5990 feet  
 13) Approximate trata depths: Fresh, 860 feet; salt, 1760 feet.  
 14) Approximate coal seam depths:        Is coal being mined in the area? Yes        / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	9 5/8"	SMLS	32	X		1200'	1200'	300 cts	By Rule 15.05	
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes	
Intermediate										
Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required	
Tubing									By Rule 15.01	
Liners									Perforations:	
									Top	Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: \_\_\_\_\_

By \_\_\_\_\_  
 Its Jan 24 Date 25

\_\_\_\_\_  
 (Signature)  
 \_\_\_\_\_  
 (Signature)  
 President

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**09/29/2023**  
 Surface Owner



**INSTRUCTIONS TO SURFACE OWNERS  
AND  
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT  
ON OIL AND GAS WELL WORK PERMIT**

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

**NOTE: You are not required to file any comment at all.**

**Where to file comments and obtain additional information:**

Administrator of the Office of Oil and Gas  
West Virginia Department of Mines  
1615 Washington Street East  
Charleston, West Virginia 25311  
(304) 348-2057

**Who may file comments?** If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

**Time limits for comments.** The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

**Methods for filing comments.** Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- “(1) The proposed well work will constitute a hazard to the safety of persons; or
- “(2) The plan for soil erosion and sediment control is not adequate or effective; or
- “(3) Damage would occur to publicly owned lands or resources; or
- “(4) The proposed well work fails to protect fresh water sources or supplies.”

**If you want a copy of the permit** as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

**List of Water Testing Laboratories.** The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.





JAN. 22 1985

IV-9  
(Rev 8-81)

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JAN 25 1985

State of West Virginia

Department of Mines  
Oil and Gas Division

DATE January 17, 1985

WELL NO. Imperial #21

API NO. 47-039-4116

OIL & GAS DIV.  
DEPT. OF MINES

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Allegheny & Western Energy Corp.  
Address Box 2587, Charleston, WV  
Telephone 343-4327

DESIGNATED AGENT Roland C. Baer  
Address Box 2587, Charleston, WV 25329  
Telephone 343-4327

LANDOWNER Imperial Coal Co.  
Revegetation to be carried out by Roland C. Baer

SOIL CONS. DISTRICT Capitol  
(Agent)

This plan has been reviewed by Capitol SCD. All corrections and additions become a part of this plan:

JAN. 22 1985  
R. C. Alford  
(Date)

(SCD Agent)  
"SEE ATTACHED COMMENTS"

ACCESS ROAD  
Structure Drainage Ditch (A)  
Spacing Along Access Road  
Page Ref. Manual \_\_\_\_\_  
Structure \_\_\_\_\_ (B)  
Spacing \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_  
Structure Cross Drains (C)  
Spacing As shown on sketch  
Page Ref. Manual 2:1 to 2:6

LOCATION  
Structure Diversion Ditch (1)  
Material Earthen  
Page Ref. Manual 2:12 to 2:13  
Structure \_\_\_\_\_ (2)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_  
Structure Pit (3)  
Material Dug, and plastic lined  
Page Ref. Manual \_\_\_\_\_

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I  
Lime 3.0 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or Straw 2.0 Tons/acre  
Seed Ky. 31 Tall Fescue 45 lbs/acre  
Crownvetch 10 lbs/acre  
Rye Grass 10 lbs/acre

Treatment Area II  
Lime 3.0 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or Straw 2.0 Tons/acre  
Seed Ky. 31 Tall Fescue 45 lbs/acre  
Crownvetch 10 lbs/acre  
Rye Grass 10 lbs/acre

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

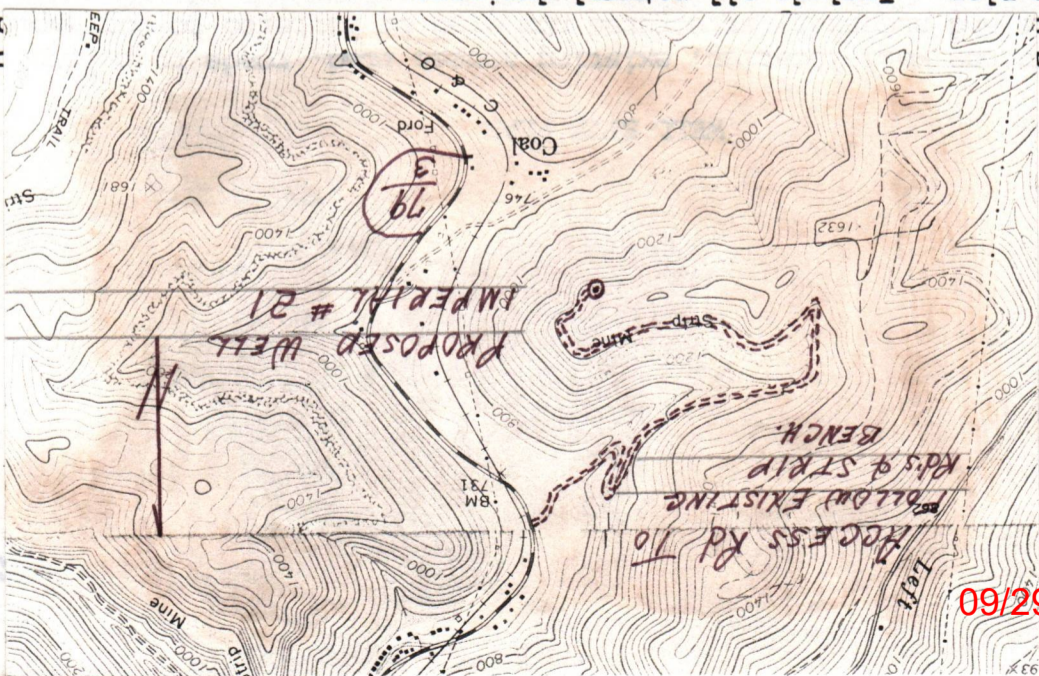
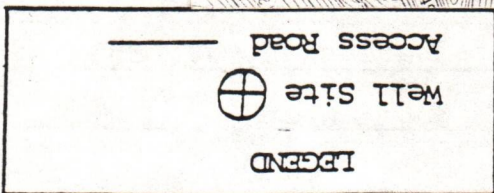
PLAN PREPARED BY George F. Rollins Jr.  
A E Associates, Inc. 09/29/2023

NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

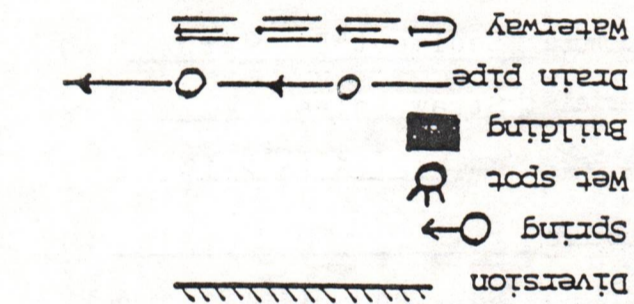
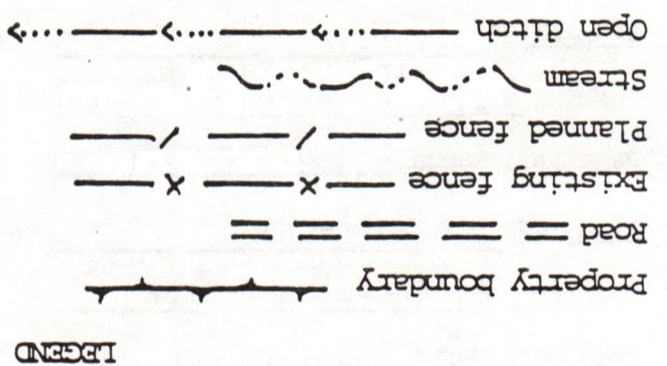
ADDRESS 1206 Virginia Street, East  
Charleston, WV 25301  
PHONE NO. 304/346-0505



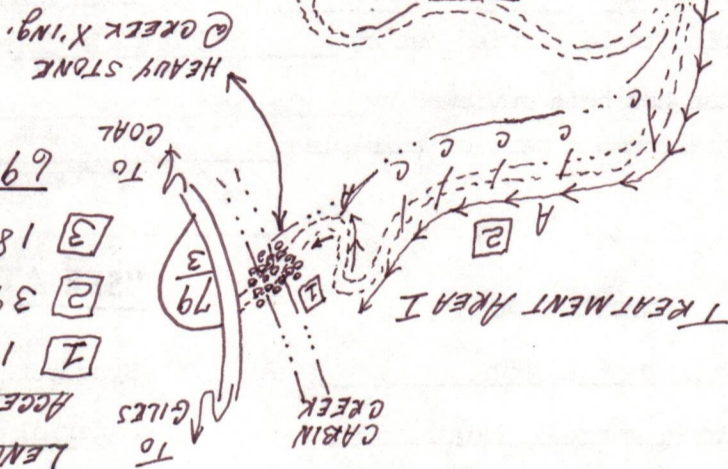
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE ESCAPE 7.5'



Sketch to include all natural drainage. part of this plan. Include all natural drainage. drilled in well sites with the first

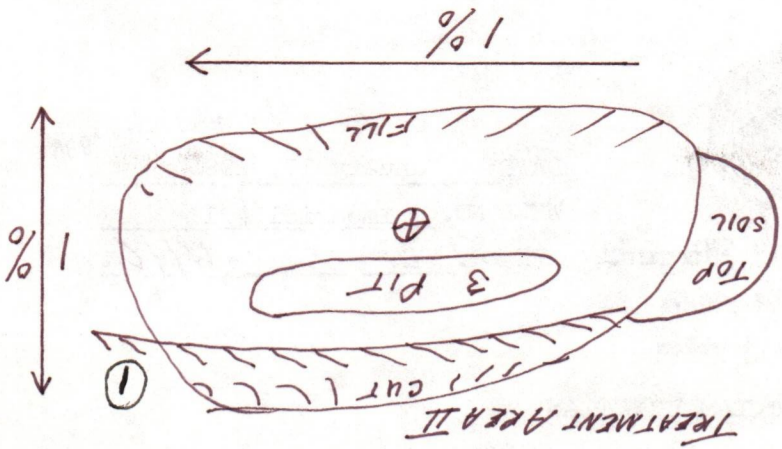


SPACING OF	LENGTH OF	Access Rd.	TO
1	1200'	4 to 6% AS NEEDED	TO
2	3900'	7 to 11% 90'	TO
3	1800'	2 to 4% AS NEEDED	TO
		6900' TOTAL	



NOTE: LOCATION TO BE CONSTRUCTED ON OLD STRIP BENCH. TOP SOIL TO BE STOCK PILED FOR RECLAMATION.

NOTE: ACCESS RD. TO FOLLOW EXISTING COAL RD. & STRIP BENCH. ALL RDS. TO BE UPGRADED WITH EROSION CONTROL IN MIND. ALL OUTLETS OF DRAINAGE & DITCHES WILL BE TO STABLE AREAS. ALL BRUSH & TIMBER CUT RIDE TO ANY EARTH MOVEMENT. TIMBER 6" DWP TO BE STACKED.







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*Waiver*

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DEPT. OF MINES**

**STATE OF WEST VIRGINIA  
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APPLICATION FOR A WELL WORK PERMIT**

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 B (If "Gas", Production  Underground storage  Deep  Shallow )  
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 District: Cabin Creek County: Kanawha Quadrangle: Esdale  
 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roland C. Baer, Jr.  
 Address P. O. Box 2587 Address P. O. Box 2587  
Charleston, WV 25329 Charleston, WV 25329  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Carlos Hively Name \_\_\_\_\_  
 Address 223 Pinch Ridge Rd. Address \_\_\_\_\_  
Elkview, WV 25071  
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 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_  
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CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	9 5/8"	SMLS	32	X		1200'	1200'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required
Tubing									By Rule 15.01
Liners									Perforations:
									Top Bottom

**INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE**

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

**WAIVER**

The undersigned coal operator owner / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: Jan 24, 19 85

By Imperial Coal Company  
F. L. Thomas, Jr.  
President

09/29/2023

Coal Owner





IV-35  
(Rev 8-81)

RECEIVED  
JUN 4 - 1985

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date May 21, 1985  
Operator's  
Well No. IMPERIAL # 21  
Farm Imperial Coal Company  
API No. 47 - 039 - 4116

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: 1437 Watershed Cabin Creek  
District: Cabin Creek County Kanawha Quadrangle Eskdale

COMPANY Allegheny & Western Energy Corporation

ADDRESS P.O. Box 2587, Charleston, WV

DESIGNATED AGENT R. C. Baer, Jr.

ADDRESS P.O. Box 2587, Charleston, WV

SURFACE OWNER Imperial Coal Company

ADDRESS P.O. Box 273, Charleston, WV

MINERAL RIGHTS OWNER Imperial Coal Company

ADDRESS P.O. Box 273, Charleston, WV

OIL AND GAS INSPECTOR FOR THIS WORK

C. Hively ADDRESS Elkview, WV

PERMIT ISSUED 1-25-85

DRILLING COMMENCED 3-18-85

DRILLING COMPLETED 3-21-85

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 Cu. ft.
Size 20-16 Cond.			
13-10"	40	40	To surf
9 5/8	1343	1343	450 sx
8 5/8			
7	2525	2525	175 sx
5 1/2			
4 1/2	5180	5180	250 sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3280 feet

Depth of completed well 5238 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth 2490 feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 40 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure 540 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

09/29/2023

Second producing formation Devonian Shale Pay zone depth 3280 feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 305 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure 890 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)



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

Perforate 2628-2722 with 20 holes  
 Perforate 2770-3510 with 40 holes  
 Perforate 3630-5140 with 40 holes

Acidize with 9000 gal 28% HCl and 180,000 scf N<sub>2</sub>.

Frac with 3000 gal 15% HCl, 120,000# 20/40 sand and 2.4 MMscfN<sub>2</sub>.

DEPT. OF MINES  
 OIL & GAS DIVISION

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SANDSTONE			0	426	
SHALE & SAND			426	1008	
SHALE			1008	2006	
SHALE & SAND			2006	2420	
LITTLE LIME			2420	2550	
SAND & SHALE			2550	2628	
BIG LIME			2628	2750	
SHALE			2750	2772	
INJUN			2772	2810	
SHALE			2810	3180	
COFFEE SHALE			3180	3210	
BEREA			3310	3280	
DEVONIAN SHALE			3280	5328	TD

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation

Well Operator

By: PK Mess 09/29/2023

Date: May 21, 1985

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 OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

RECEIVED  
MAR 27 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 039-4116

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

Company <u>Allegheny &amp; Western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Imperial Coal Co.</u>	16			Kind of Packer _____
Well No. <u>Imperial # 21</u>	13			
District <u>Cabin Creek</u> County <u>Kanawha</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			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 F.W.A. Drilling Co. Rig # 22

Remarks: Set 1343' of 9 5/8" casing & cemented with 450 SKS Class A 3% C.C. on 3-16-85. Today Drilling at # 2410' soaping hole.

3-18-85

DATE

Charles W. Hinch  
09/29/2023  
DISTRICT WELL INSPECTOR







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

RECEIVED

MAR 27 1985

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4116

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

Company Alleghenywestern  
 Address \_\_\_\_\_  
 Farm Imperial Coal Co.  
 Well No. Imperial # 31  
 District Cabin Creek County Kanawha  
 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			Kind of Packer
16			
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 F.W.A. Drilling Co. Rig # 22

Remarks: set 2505' of 7" casing & cemented with 1255 lbs of class 67 3% C.C. plug down at 12:00 P.M. on 3-18-85. T.D. hole at 5200' on 3-20-85. Today moving Rig off location.

3-21-85  
DATE

Carlos W. Hinkle  
00129/2023  
DISTRICT WELL INSPECTOR







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

RECEIVED  
APR 1 - 1985

OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4116

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

Company Allegheny+western  
 Address \_\_\_\_\_  
 Farm Imperial Coal Co.  
 Well No. Imperial #31  
 District Rabin Creek County Kanawha  
 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: Doing well perforation, Youngs wireline service doing job.

3-27-85  
DATE

Carlos W. Hinkle 09/29/2023  
DISTRICT WELL INSPECTOR







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

RECEIVED

APR 1 - 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 039-4116

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

Company <u>Alleghenywestern</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Imperial Coal Co.</u>	16			Kind of Packer _____
Well No. <u>Imperial # 91</u>	13			
District <u>Cabin Creek County Kanawha</u>	10			Size of _____
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Petro Services Inc.

Remarks: Did well Frac on 3-28-85. Today service Rig on location Blowing off well Frac.

3-29-85  
DATE

Carlos W. H...  
DISTRICT WELL INSPECTOR

00/29/2023







12-Jun-85

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

RECEIVED  
DEPARTMENT OF ENERGY  
OIL AND GAS

JAN 8 1986

Company: ALLEGEHENY & WESTERN ENERGY CORP. Permit No. 47- 39-4116 (1-25-85)  
Farm: IMPERIAL COAL COMPANY Well: IMPERIAL 21 County: KANAWHA

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water Casings	-----	-----
15.02	Adequate Coal Casings	-----	-----
15.01	Adequate Production Casings	-----	-----
15.04	Adequate Cement Strength	-----	-----
15.05	Cement Type	-----	-----
23.02	Maintained Access Roads	-----	-----
25.01	Necessary Equipment to Prevent Waste	-----	-----
23.04	Reclaimed Drillings Pits	-----	-----
23.05	No Surface or Underground Pollution	-----	-----
23.07	Requirements for Production & Gathering Pipelines	-----	-----
16.01	Well Records on Site	-----	-----
	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Carlos Hinch  
DATE 12/31/85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. v. B.B.  
Administrator

January 16, 1986  
Date



RECEIVED  
DEPARTMENT OF ENERGY  
OIL AND GAS

12-JUN-82

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

1V-20  
00verse  
1-84

JAN 8 1982

(1-22-82)

Permit No. 47-39-4116  
County: KANAWHA

Company: ALLEGHENY & WESTERN ENERGY CORP.  
Well: IMPERIAL 21

Rule	Description	In Compliance
		Yes No
23.06	Notification prior to starting work	-----
22.04	Prepared before drilling to prevent waste	-----
22.03	High pressure drilling	-----
18.01	Required permits at wellsite	-----
12.03	Adequate Fresh Water Casings	-----
12.02	Adequate Coal Casings	-----
12.01	Adequate Production Casings	-----
12.04	Adequate Cement Strength	-----
12.02	Cement Type	-----
23.02	Maintained Access Roads	-----
22.01	Necessary Equipment to Prevent Waste	-----
23.04	Reclaimed Drilling Pits	-----
23.02	No Surface or Underground Pollution	-----
23.07	Requirements for Production & Gathering Pipelines	-----
18.01	Well Records on Site	-----
	Well Records Filed	-----
2.02	Identification Markings	-----

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

\_\_\_\_\_  
SIGNED

\_\_\_\_\_  
DATE

Your well record was received and reclassification requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

\_\_\_\_\_  
Administrator

\_\_\_\_\_  
January 18, 1982

\_\_\_\_\_  
Date

09/29/2023



**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

**RECEIVED**

1.0 API well number.  
(If not assigned, leave blank. 14 digits.)

2.0 Type of determination being sought.  
(Use the codes found on the front of this form.)

3.0 Depth of the deepest completion location. (Only needed if sections 103 or 107 in 2.0 above.)

47 - 039 - 4116 -

107  
Section of NGPA

3  
Category

5140 feet

JUN - 4 1985

4.0 Name, address and code number of applicant. (35 letters per line maximum. If code number not available, leave blank.)

Allegheny & Western Energy Corporation  
Name  
P.O. Box 2587  
Street  
Charleston  
City WV 25329  
State Zip Code

**OIL & GAS DIV. / A**  
**DEPT. OF MINES**  
Seller Code

5.0 Location of this well: (Complete (a) or (b).)  
(a) For onshore wells (35 letters maximum for field name.)

Cabin Creek District  
Field Name  
Kanawha  
County WV  
State

(b) For OCS wells:

Area Name \_\_\_\_\_ Block Number \_\_\_\_\_

Date of Lease: NA  
Mo. Day Yr. OCS Lease Number

(c) Name and identification number of this well: (35 letters and digits maximum.)

Imperial 21

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)

Mountaineer Gas Company  
Name NA  
Buyer Code

(b) Date of the contract:

NA  
Mo. Day Yr.

(c) Estimated total annual production from the well:

Million Cubic Feet

	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-))	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU <u>3.400</u>	_____	_____	<u>3.400</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU _____	<u>D E R E G U L A T E D</u>		_____

9.0 Person responsible for this application:

**Agency Use Only**

Date Received by Juris. Agency  
JUN - 4 1985

Date Received by FERC

R H Hess  
Name President  
Title  
*R H Hess*  
Signature 6/3/85  
Date Application is Completed 304-343-4327  
Phone Number

FR-171 (8-82)

09/29/2023



DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

te: 6/3, 19 85

1100

AGENCY USE ONLY *Dev.*

licant's Name: Allegheny & Western Energy

ress: P.O. Box 2587

Charleston, WV 25329

s Purchaser Contract No. KAN-1

te of Contract 6-21-84  
(Month, day and year)

WELL DETERMINATION FILE NUMBER  
850604 -107<sup>2</sup>-039 - 4116  
Use Above File Number on all  
Communications Relating to This Well

rst Purchaser: Mountaineer Gas Company

Designated Agent: Roland C. Baer, Jr.

ress: P.O. Box 3152 Charleston, WV  
(Street or P.O. Box)

Address: P.O. Box 2587

Charleston, WV 25329

(City) (State) (Zip Code)

RC Seller Code

FERC Buyer Code

ME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL  
ADDRESSED:

Name: R H Hess

(Print)

President

Signature: *R.H. Hess*

(Title)

Address:

P.O. Box 2587

(Street or P.O. Box)

Charleston, WV 25329

(City) (State) (Zip Code)

Telephone:

304 ) 343-4327

(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

2A SECTION/SUBSECTION

2 New Natural Gas

- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

108 Stripper Well Natural Gas

- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildup

3 New Onshore Production Well

- 103 New Onshore Production Well

7 High Cost Natural Gas

- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

09/29/2023

RECEIVED

JUN - 4 1985

OIL & GAS DIV.  
DEPT. OF MINES

JUN - 4 1985

Date Received

JUN 28 1985

Determination Date



Well: IMPERIAL #21

API No.: 47-039-4116

On the basis of the Gamma Ray Log, the top of the Devonian shale is established at 3280 feet and the base at 5230 feet, a total interval of 1950 feet of Devonian. The 5% disqualification factor is, therefore, established as  $.05 \times 1950$  feet, or 97.5 feet.

The gamma ray shale base line was established in the Devonian shale, exclusive of the black shale horizons, and was determined to be 159.0 API units. The 70% gamma ray index line is, therefore, 111.3 API units.

~~The total footage of disqualifying footage was calculated to be 14 feet or .72% of the total Devonian shale interval penetrated by the well bore. This well, therefore, qualifies for Devonian shale pricing.~~

09/29/2023



Date 6/3/85

Operator's Well No. Imperial 21

API Well No. 47 - 039 - 4116  
State County Permit

WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE  
NGPA Section 107

DESIGNATED AGENT Roland C. Baer, Jr.

ADDRESS P.O. Box 2587  
Charleston, WV 25329

LOCATION Elevation 1437  
Watershed CABIN CREEK

WELL OPERATOR Allegheny & Western Energy Corp.

ADDRESS P.O. Box 2587  
Charleston, WV 25329

Dist. Cabin Crk. County Kanawha Quad. Eskdale

GAS PURCHASER Mountaineer Gas Company

ADDRESS P.O. Box 3152  
Charleston, WV 25332

Gas Purchase Contract No. KAN-1

Meter Chart Code N/A

Date of Contract 6-21-84

Date surface drilling began: 3/18/85

Indicate the bottom hole pressure of the well and explain how this was calculated.  
From Department of Interior Monograph 7

BHP = Absolute static pressure plus pressure from gas column  
BHP = ( 890 + 15 ) + (Specific Gravity X Depth)  
BHP = ( 905 + 96 )  
BHP = 1001

AFFIDAVIT

I, Robert H. Hess, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

R.H. Hess

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA, TO-WIT:

Deborah J. Kuhl Auxier, a Notary Public in and for the state and county aforesaid, do certify that R.H. Hess, whose name is signed to the writing above, bearing date the 3 day of June, 1985, has acknowledged the same before me, in my county aforesaid.

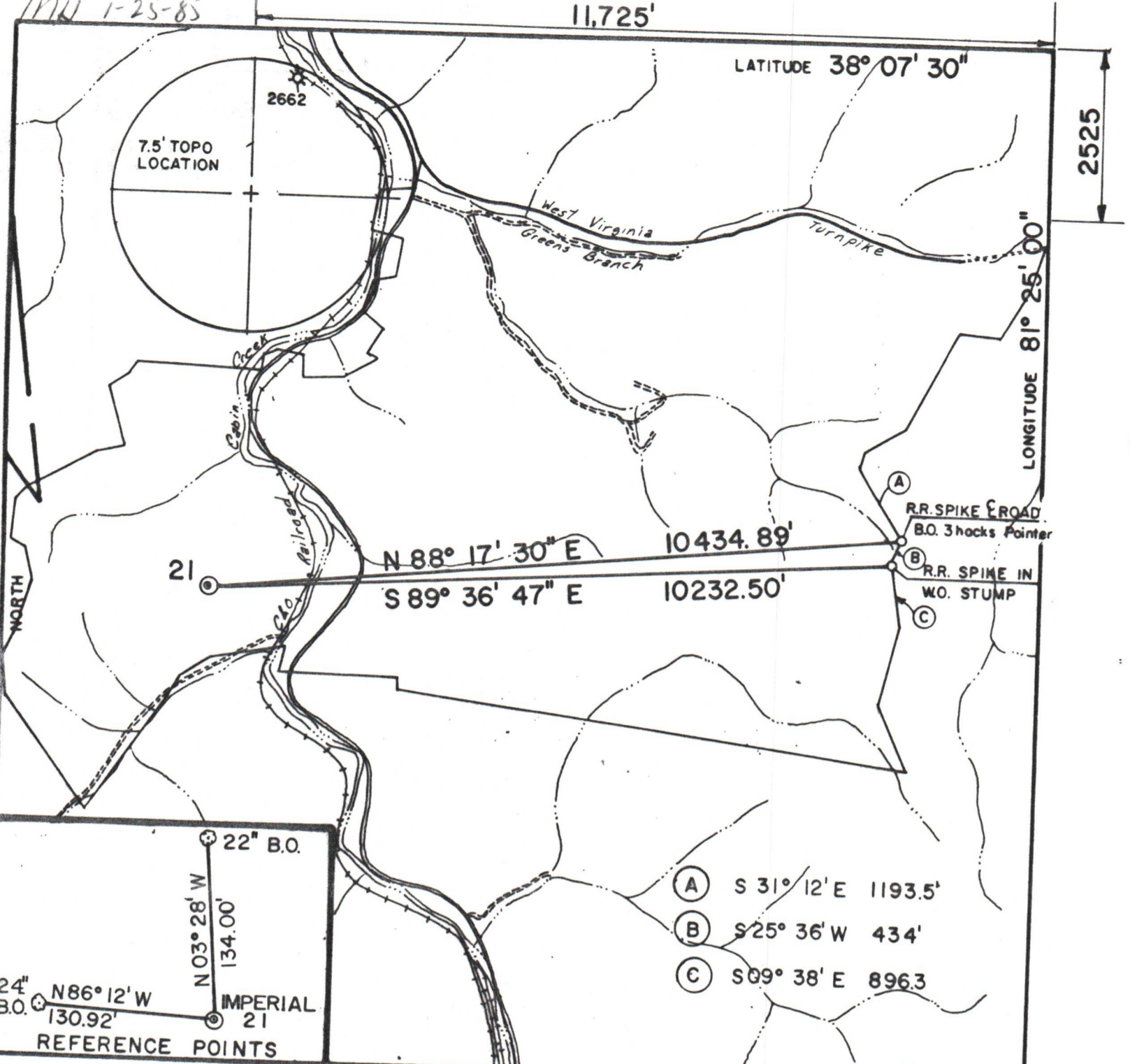
09/29/2023

Given under my hand and official seal this 3 day of June, 1985. My term of office expires on the 29 day of May, 1990.

NOTARIAL SEAL)

Deborah J. Kuhl Auxier  
Notary Public





FILE NO. 10-0002

DRAWING NO. \_\_\_\_\_

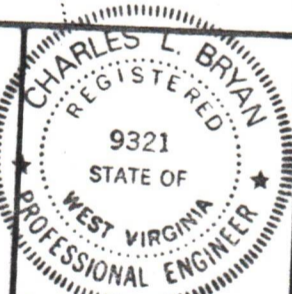
SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1" IN 2500'

PROVEN SOURCE OF ELEVATION USGS. BM 9SKS 1963 ELEV. 731

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) Charles L. Bryan  
R.P.E. 9321 / L.L.S. \_\_\_\_\_



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



Department of Mines  
Oil & Gas Division

DATE JANUARY 18 1985

OPERATOR'S WELL NO. 21

API WELL NO. 47-039-4116

STATE WEST VIRGINIA COUNTY KANAWHA PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)

LOCATION: ELEVATION 1437 WATER SHED CABIN CREEK  
DISTRICT CABIN CREEK COUNTY KANAWHA  
QUADRANGLE ESKDALE 7.5'

SURFACE OWNER IMPERIAL COAL COMPANY ACREAGE 1861

OIL & GAS ROYALTY OWNER IMPERIAL COAL COMPANY LEASE NO. \_\_\_\_\_ LEASE ACREAGE 1861

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5990'

WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND C. BAER

ADDRESS PO. BOX 2587 ADDRESS SAME  
CHARLESTON, W.Va. 25329

09/29/2023