

FILE COPY



1) Date: April 10, 1985
 2) Operator's Well No. Imperial #50
 3) API Well No. 47 - 039 - 4152
 State 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 /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 767 Watershed: Cabin Creek
 District: Cabin Creek County: Kanawha Quadrangle: Cedar Grove
- 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 Road
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, Injun, Weir, Devonian Shale
 12) Estimated depth of completed well, 5290 feet
 13) Approximate trata depths: Fresh, 20 feet; salt, 1120 feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No

DEPT. OF MINES
 OIL & GAS DIVISION
 APR 12 1985
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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		
Conductor								Kinds
Fresh water	9 5/8"	SMLS	32	X		200'	200'	300 cts By Rule 15.05
Coal	7"	SMLS	23	X		1300'	1300'	200 cts Sizes
Intermediate								
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 sks Depths set Or As Required
Tubing								By Rule 15.01
Liners								Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-039-4152

Date April 12, 1985

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 April 12, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>5</u>	<u>SW</u>	<u>MH</u>	<u>MH</u>	<u>1846</u>

Margaret J. Lass
 Administrator, Office of Oil and Gas

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

OFFICE USE ONLY

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

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: _____

1) Date: April 8, 1985
2) Operator's Well No. Imperial #50
3) API Well No. 47 - 039 - 4152
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

(i) Name Imperial Coal Company
Address c/o Fredrick L. Thomas, Jr.
President
(ii) Name P. O. Box 273
Address Charleston, West Virginia 25321
(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Imperial Coal Company
Address c/o Fredrick L. Thomas, Jr.
President
Name P. O. Box 273
Address Charleston, WV 25321

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.

DEPT. OF MINES
OIL & GAS DIVISION

APR 12 1985

RECEIVED

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 8 day of April, 1985.

My commission expires 5/29, 1990.

Deborah J. Kull
Notary Public, Kanawha County,
State of West Virginia

WELL
OPERATOR Allegheny & Western Energy Corporation

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

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 Page</u>
------------------------------	------------------------------	----------------	------------------

Farmout from:

Columbia Gas Transmission Corp.

1/8

Recorded 5-11-78

United Fuel Gas Co.

Imperial Coal Company

1/8

1060 189



IV-9
(Rev 8-81)

DATE April 10, 1985
WELL NO. Imperial 50
API NO. 47-039-4152

State of West Virginia
Department of Mines
Oil and Gas Division

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.

SOIL CONS. DISTRICT Capitol

Revegetation to be carried out by Roland C. Baer (Agent)

This plan has been reviewed by Capitol SCD. All corrections and additions become a part of this plan: APR. 12 1985

"FIELD REVIEWED"

(Date)

R. C. Baer
(SCD Agent)

"SEE ATTACHED COMMENTS"
LOCATION

ACCESS ROAD

Structure Drainage Ditch (A)
Spacing Along Access Road
Page Ref. Manual _____

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2:12 to 2:13

Structure _____ (B)
Spacing _____
Page Ref. Manual _____

Structure _____ (2)
Material _____
Page Ref. Manual _____

Structure Cross Drains (C)
Spacing As shown on sketch
Page Ref. Manual 2:1 to 2:6

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

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

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

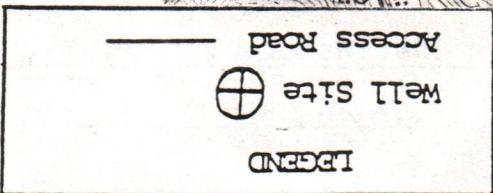
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY George F. Collins Jr.
A E Associates 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 CEDAR GROVE 7.5'

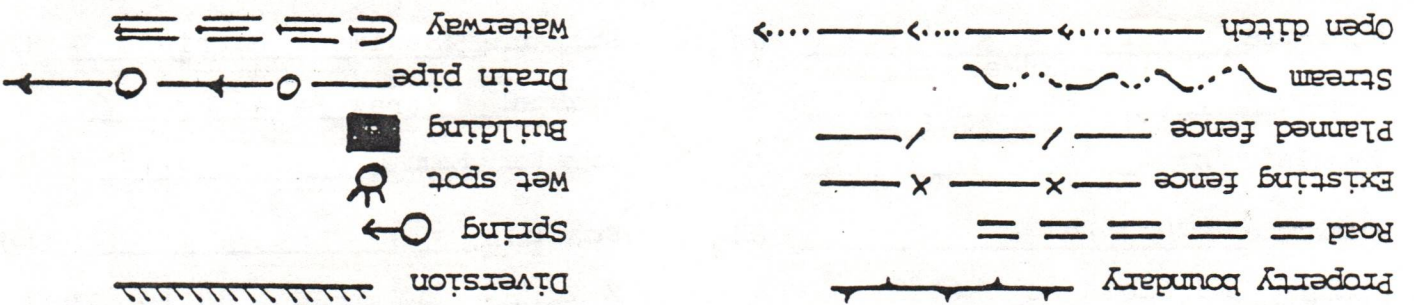


09/29/2023

ected, wellsite
 with the first



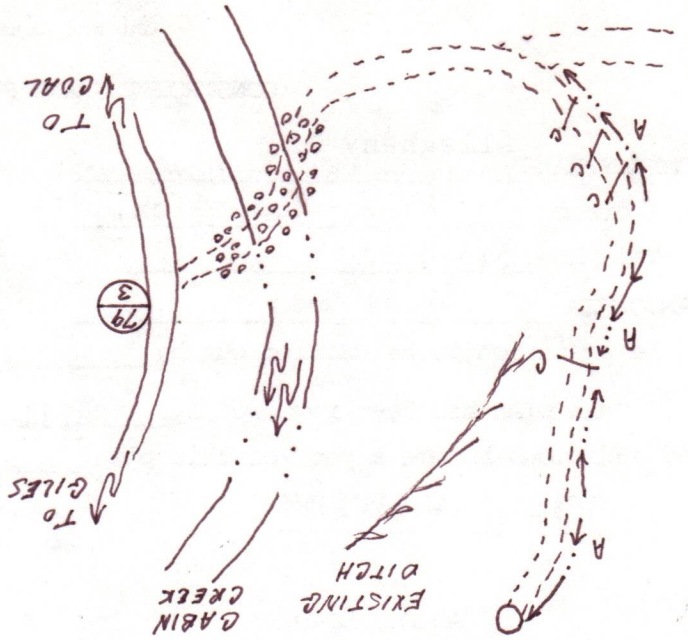
LEGEND



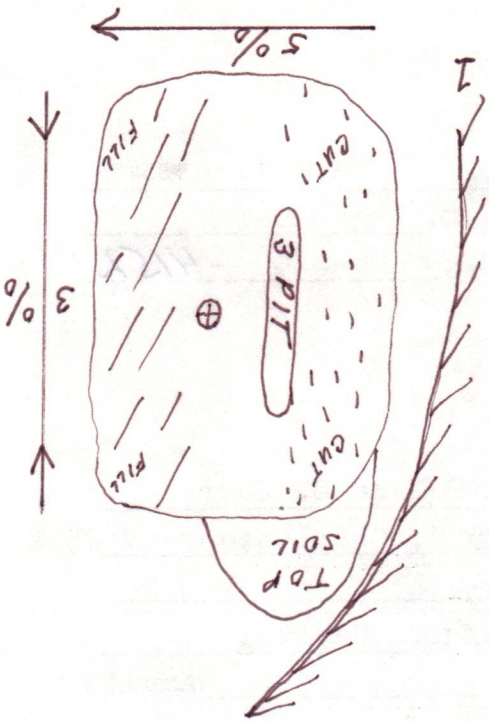
SPACING OF ACCESS RD. SLOPE CROSS DRAINS AS NEEDED 90'

1	1100'	4 to 5%
2	700'	7 to 10%
1800' TOTAL		

TREATMENT AREA I



TREATMENT AREA II



NOTE: Access Rd. TO FOLLOW EXISTING COAL RD, STREAM X'ING, & LOG RD. S TO BE UPGRADED WITH EROSION CONTROL IN MIND. ALL BRUSH & TIMBER WILL BE CUT PRIOR TO EARTH MOVEMENT. TIMBER 6" & UP TO BE STACKED. LOCATION LOCATED IN WOODED AREA. (HAS BEEN TIMBERED). TOP SOIL TO BE STOCK-PILED FOR RECLAMATION.

CAPITOL SOIL CONSERVATION DISTRICT
WESTMORELAND PLACE
400 ALLEN DRIVE
CHARLESTON, WEST VIRGINIA 25302

DATE: APRIL 12, 1985

WELL SITE: IMPERIAL #50
Allegheny & Western Energy Corp.

QUADRANGLE: CEDAR GROVE

LANDOWNER: IMPERIAL COAL COMPANY

PLAN PREPARED BY: George F. Rollins, Jr., A E Associates, Ltd.

PLAN RECEIVED BY CAPITOL SCD ON: APRIL 10, 1985, delivered by Jr. Rollins.

PLAN REVIEWED BY: Linda M. Cable, District Manager, Capitol SCD, on APRIL 12, 1985.

SITE FIELD REVIEWED YES DATE 4-10-85 NO

RECLAMATION PLAN COMMENTS:

- (1) Good Plan!
- (2) The Public Lands Corporation must be contacted for a permit to cross Cabin Creek.

R. C. Alford

R. C. ALFORD, CHAIRMAN
BOARD OF SUPERVISORS

NOTE: ALL COMMENTS SHOULD BE STUDIED
SO THEY WILL NOT BE REPEATED
ON FUTURE PLANS!

cc: Office of Oil & Gas, WV Dept. of Mines

09/29/2023

RECEIVED

APR 12 1985



1) Date: April 10, 19 85
 2) Operator's Well No. Imperial #50
 3) API Well No. 47 039
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 OIL & GAS DIVISION DEPARTMENT OF MINES, OIL AND GAS DIVISION
 DEPT. OF MINES 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: 767 Watershed: Cabin Creek
 District: Cabin Creek County: Kanawha Quadrangle: Cedar Grove
- 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roald 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 Road Address _____
Elkview, WV 25071
- 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, Injun, Well, Devonian Shale
- 12) Estimated depth of completed well, 5290 feet
 13) Approximate trata depths: Fresh, 20 feet; salt, 1120 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		
Conductor									Kinds
Fresh water	9 5/8"	SMLS	32	X		200'	200'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		1300'	1300'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 sks	Depths set <u>Or As Required</u> <u>By rule 15.01</u>
Tubing									
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 April 12 Date 85

 (Signature)
Roald C. Baer, Jr.
 (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.

RECEIVED
APR 12 1985



1) Date: April 10, 1985
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 State County Permit

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

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Charleston, WV 25329 Charleston, WV 25329
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Carlos Hively
 Address 223 Pinch Ridge Road
Elkview, WV 25071
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15) CASING AND TUBING PROGRAM

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Intermediate									
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 sks	Depths set Or As Required By rule 15.01
Tubing									
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 / 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: April 12, 1985

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

09/29/2023
 Coal Owner

RECEIVED

JUN 4 - 1985

OIL & GAS DIVISION
DEPT. OF MINES



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 21, 1985
Operator's IMPERIAL # 50
Well No. IMPERIAL # 50
Farm Imperial Coal Company
API No. 47 - 039 - 4152

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: 767 Watershed Cabin Creek
District: Cabin Creek County Kanawha Quadrangle Cedar Grove

COMPANY Allegheny & Western Energy Corp.

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 4-12-85

DRILLING COMMENCED 4-16-85

DRILLING COMPLETED 4-21-85

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 X	40	40	To surf
9 5/8	383	383	140 sx
8 5/8			
7	1925	1925	175 sx
5 1/2			
4 1/2	4619	4619	250 sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2783 feet

Depth of completed well 4690 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 20 feet; Salt 1120 feet

Coal seam depths: _____ Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Coffee Shale Pay zone depth 2486 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 80 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 450 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 2783 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 140 Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 950 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)

KAN 4152

RECEIVED
DEPT. OF MINES

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

Perforate 2083-2810 with 39 holes
Perforate 2882-4632 with 70 holes

Frac with 3000 gal 15% HCl, 120,000# 20/40 sand and 2,440 M scf N₂.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
SAND & SLATE			0	340	
SLATE & SHALE			340	503	
SHALE			503	871	
SANDSTONE			871	1112	
SHALE & SAND			1112	1645	
LITTLE LIME			1645	1872	
SHALE			1872	1990	
BIG LIME			1990	2050	
SHALE			2050	2152	
INJUN			2152	2180	
SHALE			2180	2240	
WEIR			2240	2330	
SHALE			2330	2486	
COFFEE SHALE			2486	2514	
BEREA			2514	2783	
DEVONIAN SHALE			2783	4690	TD

(Attach separate sheets as necessary)

ALLEGHENY & WESTERN ENERGY CORPORATION

Well Operator

By:

R. H. Hess

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

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OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 0324152

Oil or Gas Well _____
(KIND)

Company <u>Allegheny & Western</u> Address _____ Farm <u>Imperial Coal Co.</u> Well No. <u>Imperial # 50</u> District <u>Cabin Creek</u> County <u>Boonville</u> 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 Size 16 13 10 8 1/4 6 5/8 5 3/16 3 2 Liners Used	USED IN DRILLING	LEFT IN WELL	PACKERS Kind of Packer _____ Size of _____ Depth set _____ Perf. top _____ Perf. bottom _____ 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 # 15

Remarks: Moved Rig on location 4-17-85. Set 145' of 13 3/8" Conductor pipe & cemented with 3115Ks. Class A. 4-17-85. Set 393' of 9 5/8" casing & cemented with 1405Ks. Class A 3% c.c. plugdown at midnight 4-18-85. Today going back in hole with Drill Pipe.

4-19-85
DATE

Carlson H. H. H.
DISTRICT WELL INSPECTOR

09/29/2023

Form 26
 2/16/82
 RECEIVED
 APR 5 3 1982
 OIL & GAS DIVISION
 DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.
 DATE

 DISTRICT WELL INSPECTOR 09/29/2023

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

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MAY 1 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 039-4152

Oil or Gas Well _____
(KIND)

Company <u>Allegheny & western</u> Address _____ Farm <u>Imperial Coal Co.</u> Well No. <u>Imperial # 50</u> District <u>Cabin Creek & County Kanawha</u> 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 3/4			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 # 15

Remarks: set 1935' of 7" casing & cemented with 1755 K.S. Class A 3% C.C. 4-22-85. Today T.D. hole at 4676' & doing well 109.

4-24-85

DATE

Carlos W. Hinds

DISTRICT WELL INSPECTOR

09/29/2023

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

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INSPECTOR'S WELL REPORT OIL & GAS DIVISION

DEPT. OF MINES
Oil or Gas Well (KIND)

Permit No. 039-4152

Company	Address	Farm	Well No.	District	Drilling commenced	Drilling completed	Date shot	Initial open flow	Open flow after tubing	Volume	Rock pressure	Oil	Fresh water	Salt water	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
															Size			Kind of Packer
Allegheny & Western		Imperial Coal Co.	Imperial # 50	Cabin Creek County Kanawha				/10ths Water in	/10ths Merc. in	Cu. Ft.	lbs.	bbls., 1st 24 hrs.	feet	feet	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 _____

Remarks: Doing well Frac, Dowell doing Frac.

5-6-85
DATE

Carlton W. Hines
DISTRICT INSPECTOR
09/28/2023

**STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT**

RECEIVED
MAY 1 6 38
OIL & GAS DIVISION

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.
DATE

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

Company: ALLEGHENY & WESTERN ENERGY CORP. Permit No. 47- 39-4152 (4-12-85)
Farm: IMPERIAL COAL CO Well: IMPERIAL 50 County: KANAWHA

JAN 8 1986

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepared 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 Drilling Pits	-----	-----
23.05	No Surface or Underground Pollution	-----	-----
23.07	Requirements for Production & Gathering Pipelines	-----	-----
14.01	Well Records on Site	-----	-----
14.02	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED Carlos Hincley

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. ...

Administrator

January 17, 1986

Date

12-Jun-82

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 1982

Company: ALLEGHENY & WESTERN ENERGY CORP.
Well: IMPERIAL 50
County: KANAWHA
Permit No. 47-39-4122


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

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

SIGNED

DATE

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.



Administrator

Date

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

RECEIVED
JUN 12 1985

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

<p>1.0 API well number: (If not assigned, leave blank. 14 digits.)</p>	<p>47 - 039 - 4152 -</p>										
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p>107 Section of NGPA</p> <p>3 Category Code</p>										
<p>3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above)</p>	<p>_____ feet</p>										
<p>4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)</p>	<p>Allegheny & Western Energy Corporation Name P.O. Box 2587 Street Charleston WV 25329 City State Zip Code</p>										
<p>5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name) (b) For OCS wells:</p>	<p>Cabin Creek District Field Name Kanawha WV County STATE</p> <p>Area Name _____ Block Identifier _____</p> <p>Date of Lease: _____ Mo. Day Yr. NA</p> <p>OCS Lease Number NA</p>										
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p>IMPERIAL #50</p>										
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p>_____</p>										
<p>6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract:</p>	<p>Mountaineer Gas Company Name NA Buyer Code</p> <p>_____ Mo. Day Yr. NA</p>										
<p>(c) Estimated total annual production from the well:</p>	<p>_____ Million Cubic Feet</p>										
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;"></th> <th style="width:25%;">(a) Base Price</th> <th style="width:25%;">(b) Tax</th> <th style="width:20%;">(c) All Other Prices (Indicate (+) or (-).)</th> <th style="width:15%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td>S/MMBTU</td> <td style="text-align: center;">3.400</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">-----</td> <td style="text-align: center;">3.400</td> </tr> </tbody> </table>		(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)	S/MMBTU	3.400	-----	-----	3.400
	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)							
S/MMBTU	3.400	-----	-----	3.400							
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr> <td style="width:15%;">S/MMBTU</td> <td style="width:25%;">-----</td> <td style="width:25%;">D E R E G U L A T E D</td> <td style="width:15%;">-----</td> </tr> </tbody> </table>	S/MMBTU	-----	D E R E G U L A T E D	-----						
S/MMBTU	-----	D E R E G U L A T E D	-----								
<p>9.0 Person responsible for this application:</p>	<p>R H Hess Name _____ President Signature <i>RH Hess</i> Title _____ 6/3/85 Date Application is Completed 304-343-4327 Phone Number</p>										

Agency Use Only
Date Received by Juris. Agency
JUN 12 1985
Date Received by PERC

FERC-171 (8-82)

09/29/2023

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 6/3, 19 85

1100

Applicant's Name: Allegheny & Western Energy

Address: P.O. Box 2587

Charleston, WV 25329

Gas Purchaser Contract No. KAN-1

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

First Purchaser: Mountaineer Gas Company

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

(City) (State) (Zip Code)

FERC Seller Code _____

AGENCY USE ONLY
WELL DETERMINATION FILE NUMBER
850612-1073-039-4152
Use Above File Number on all
Communications Relating to This Well

Designated Agent: Roland C. Baer, Jr

Address: P.O. Box 2587

Charleston, WV 25329

FERC Buyer Code _____

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

Name: R H Hess (Print) President (Title)

Signature: [Signature]

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

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
- 103 New Onshore Production Well
- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- X 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY
QUALIFIED
09/29/2023

RECEIVED

JUN 12 1985
OIL & GAS DIV.
DEPT. OF MINES

Date Received _____

Determination Date _____

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Allegheny and Western Energy Corp. Agent: _____

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-039-4152 Well Name: Imperial #50

West Virginia Office of Oil and Gas County: Kanawha
References: SJA File No. _____

Vol. _____ Page _____ Line _____

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 180 * API Units
2. Remarks: _____

Gamma Ray Scale = 0 = 200 API Units

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 180 * API Units
2. Calculation: $0.7 \text{ (GR Value at Base Line)}$
 $0.7 \text{ (180 *)} = \underline{126}$ API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2583'	4686'		

Total Devonian Interval 2103'

Total Less Than 0.7 (Shale Base) 15'

% Less Than 0.7 (Shale Base Line) = $\frac{0.0071}{2103} \times 100 = \underline{0.71\%}$

09/29/2023

*Marked on log included with analysis.
**Top of Devonian Section Recorded on First Interval in this Column.
***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Imperial 50

API Well No.

47 - 039 - 4152
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 767
Cabin Creek

WELL OPERATOR Allegheny & Western Energy Corp.

ADDRESS P.O. Box 2587
Charleston, WV 25329

Dist. Cabin Crk. County Kanawha Quad. Cedar Grove

Gas Purchase Contract No. KAN-1

GAS PURCHASER Mountaineer Gas Company

ADDRESS P.O. Box 3152
Charleston, WV 25332

Meter Chart Code N/A

Date of Contract 6-21-84

* * * * *

Date surface drilling began: 4/16/85

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 = (950 + 15) + (Specific Gravity X Depth)
BHP = (965 + 96)
BHP = 1061

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)(11)(A) has been filed, or as indicated by the report described in subparagraph (3)(11)(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:

I, 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

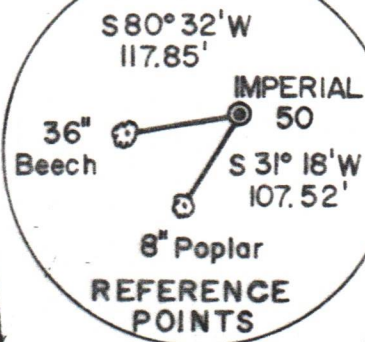
Given under my hand and official seal this 3 day of June, 1985.
My term of office expires on the 29 day of May, 1990.

Deborah J. Kuhl Auxier
Notary Public

(NOTARIAL SEAL)

LATITUDE 38° 10' 00"

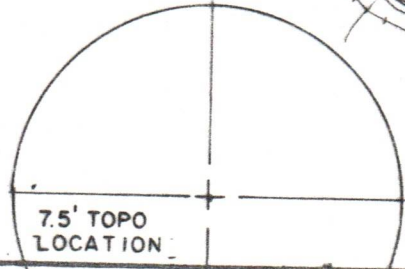
LONGITUDE 81° 25' 00"



IMPERIAL COAL COMPANY

R.R. SPIKE ROAD
B.O. Shocks Pointer
R.R. SPIKE IN
WO. STUMP

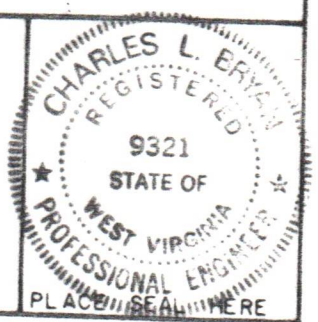
- (A) S 31° 12' E 1193.5'
- (B) S 25° 36' W 434'
- (C) S 09° 38' E 896.3



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 APRIL 9 19 85
 OPERATOR'S WELL NO. 50
 API WELL NO. 47-039-4152
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 767 WATER SHED CABIN CREEK
 DISTRICT CABIN CREEK COUNTY KANAWHA
 QUADRANGLE CEDAR GROVE 7.5'
 SURFACE OWNER IMPERIAL COAL COMPANY ACREAGE 1861
 OIL & GAS ROYALTY OWNER IMPERIAL COAL COMPANY LEASE ACREAGE 1861
 LEASE NO. _____
 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 5290
 WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND C. BAER
 ADDRESS PO. BOX 2587 ADDRESS SAME
CHARLESTON, W.Va. 25329

09/29/2023