

RECEIVED

JAN 25 1985



1) Date: January 23, 19 85
 2) Operator's Well No. Imperial #22
 3) API Well No. 47 - 039 - 4115
 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: 1272 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, 700 feet; salt, 1600 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		1000'	1000'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes
Intermediate									
Production Tubing	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required
Liners									By Rule 15.01
									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-039-4115 Date January 25, 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 January 25, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>5</u>	<u>MW</u>	<u>MW</u>	<u>MW</u>	<u>1471</u>

Margaret J. Hassel
 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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JAN 2 1982

OFFICE USE ONLY

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

1. LOCATION: Cabin Creek, Cablin Creek, P.O. Box 2587, Charleston, WV 25329

2. WELL OPERATOR: Allegheny & Western Energy Corp., P.O. Box 2587, Charleston, WV 25329

3. ON A GAS INSPECTOR TO BE NORTHERN: Carlowe Rively, 223 Birch Ridge Rd., Elkhorn, WV 25871

4. WELL CONTRACTOR: [Name], [Address]

5. PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK: [Text]

6. GEOLOGICAL INFORMATION: Devonian shale

7. ESTIMATED DEPTH OF COMPLETED WELL: 1500

8. APPROXIMATE DEPTH OF COAL: 700

9. APPROXIMATE COAL RANK: [Text]

10. COAL BEING MINED IN THE AREA: Yes

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 #22
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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, WV 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.

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, 19 85.

My commission expires 8/13, 19 91.

[Signature]
Notary Public, Kanawha County,
State of West Virginia

WELL

OPERATOR Allegheny & Western Energy Corporation

By [Signature]
Its President

Address P. O. Box 2587

Charleston, WV 25329

Telephone (304) 343-4327

RECEIVED
JAN 25 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

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 2) Operator's Well No. Imperial #22
 3) API Well No. 47 039
 State County Permit

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

**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: 1272 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 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
- 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)
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 12) Estimated depth of completed well, 5990 feet
 13) Approximate trata depths: Fresh, 700 feet; salt, 1600 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		1000'	1000'	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	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 85

(Signature) Date:
 (Signature) Date:
President

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.



IV-9
(Rev 8-81)

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OIL & GAS DIV.
DEPT. OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

DATE January 17, 1985

WELL NO. Imperial #22

API NO. 47-039-4115

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 (Agent)

SOIL CONS. DISTRICT Capitol

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

JAN. 22 1985
(Date)
R. C. Alford
(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 Culvert (B)
12"Min.-42"Max.
Spacing I.D. as shown on sketch
Page Ref. Manual 2:7 to 2:11

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

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

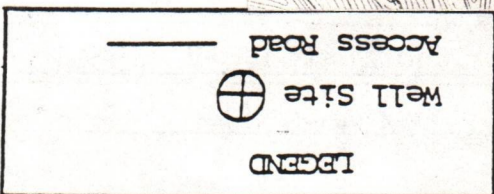
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

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

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

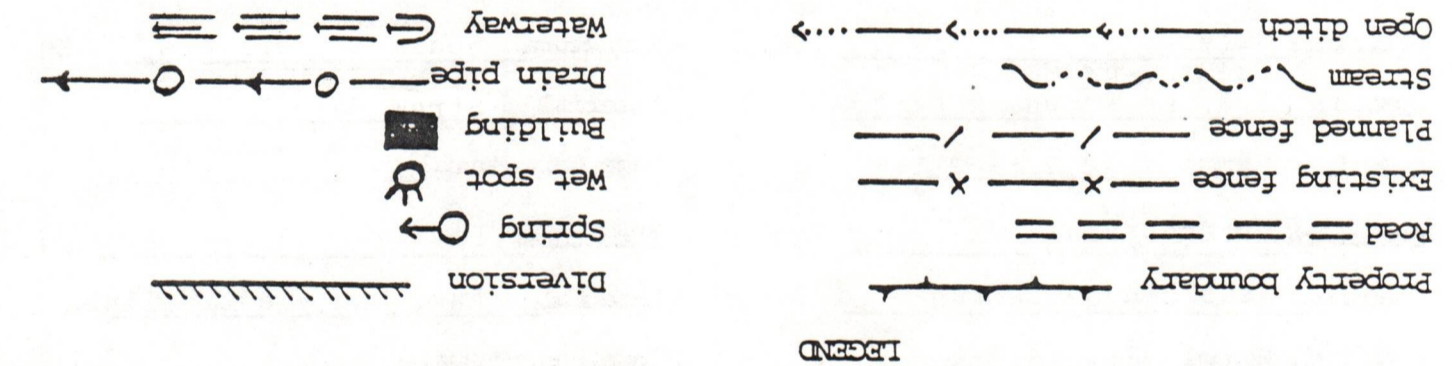
ADDRESS 1206 Virginia Street, East
Charleston, WV 25301
PHONE NO. 304/346-0505

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE ESCADALE 7.51



09/29/2023

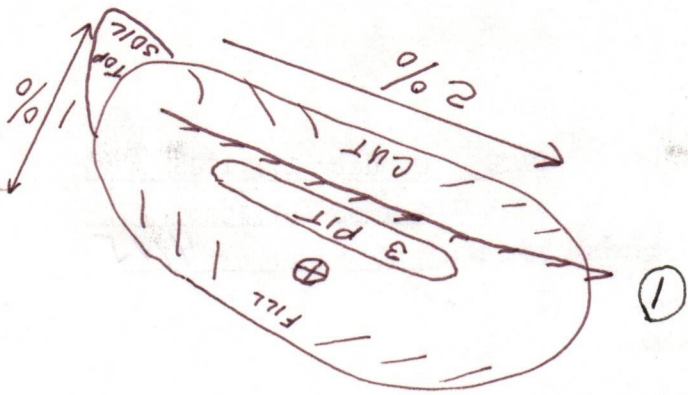
Sketch to include drilling pits and part of this plan. Unconstructed, well sites correspond with the first



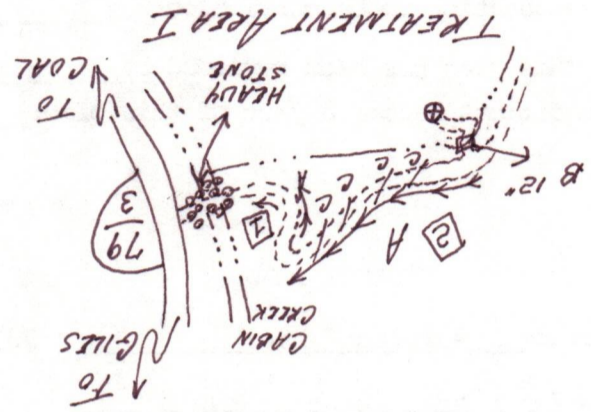
LENGTH OF	SPACING OF	ACCESS RD. SLOPE	CROSS DRAINS
1	1200'	4 to 6%	AS NEEDED
2	2500'	7 to 11%	90'
3700'		TOTAL	

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

TREATMENT AREA II



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 WILL BE CUT
 PRIOR TO ANY EARTH MOVEMENT.
 TIMBER 6" DIA UP TO BE STACKED.



COAL OWNER'S COPY

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JAN 25 1985



1) Date: January 23, 19 85
 2) Operator's Well No. Imperial #22
 3) API Well No. 47 089
 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
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- 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roland C. Baer, Jr.
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Charleston, WV 25329 Charleston, WV 25329
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Carlos Hively 9) DRILLING CONTRACTOR:
 Address 223 Pinch Ridge Rd. Name _____
Elkview, WV 25071 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
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Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 skts	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 / 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.
 Its President

09/29/2023
 Coal Owner

V-35
ev 8-81

RECEIVED
MAY 20 1985
OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date March 15, 1985
Operator's
Well No. Imperial # 22
Farm Imperial Coal
API No. 47 - 039 - 4115

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: 1272 Watershed Cabin Creek
District: Cabin Creek County Kanawha Quadrangle Eskdale

COMPANY Allegheny & Western Energy Corp.

ADDRESS P.O. Box 2587 Chas., WV 25329

SIGNATURED AGENT Roland C. Baer, Jr.

ADDRESS P.O. Box 2587 Chas., WV 25329

FACE OWNER Imperial Coal Company

ADDRESS P.O. Box 273 Chas., WV 25301

GENERAL RIGHTS OWNER Imperial Coal Company

ADDRESS P.O. Box 273 Chas., WV 25301

LAND AND GAS INSPECTOR FOR THIS WORK

D. Hively ADDRESS Elkview, WV 25071

PERMIT ISSUED 1-25-85

DRILLING COMMENCED 3-8-85

DRILLING COMPLETED 3-14-85

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
WORKING. VERBAL PERMISSION OBTAINED

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	1165	1165	300 sx
8 5/8			
7	2465	2465	175 sx
5 1/2			
4 1/2	5050	5050	225 sx
3			
2			
Liners used			

LOGICAL TARGET FORMATION Devonian Shale Depth 3140 feet

Depth of completed well 5050 feet Rotary X / Cable Tools

Water strata depth: Fresh 700 feet; Salt 1600 feet

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

PRODUCTION FLOW DATA

Producing formation Big Lime, Coffee Shale Pay zone depth 2488 / 3020 feet

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

Final open flow 41 M / 122 M Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 600 psig (surface measurement) after 24 hours shut in 09/20/2023

(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 3102 feet

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

Final open flow 425 Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 695 psig (surface measurement) after 24 hours shut in

KAN 4115

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

Perforate 2528 - 2556 with 10 holes
 2585 - 3302 with 40 holes
 3402 - 5007 with 50 holes

Frac with 3000 gal 15% HCl, 120,000# 20/40 sand and 2.2 MMscfN₂.

Acidize with 9,000 gal HCl and 180,000 scf N₂.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand and Slate			0	580	
Slate and Shale			580	980	
Shale			980	1270	
Sandstone			1270	1550	
Shale			1550	2200	
Pencil Cave			2200	2210	
Little Lime			2210	2220	
Shale			2220	2420	
Big Lime			2420	2488	
Shale			2488	2596	
Big Injun			2596	2600	
Shale			2600	2640	
Weir			2640	2708	
Shale			2708	2752	
Coffee Shale			2752	3060	
Berea			3060	3100	
Devonian Shale			3100	5050	TD

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation

Well Operator

By: RJHess

09/29/2023

Date: April 15, 1985

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of formations, including those encountered in the drilling of a well."

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

RECEIVED

MAR 20 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4115

Oil or Gas Well _____
(KIND)

Company <u>Allegheny & western</u> Address _____ Farm <u>Imperial Coal Co.</u> Well No. <u>Imperial # 22</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			Kind of Packer _____
	16			Size of _____
	13			Depth set _____
	10			Perf. top _____
	8 1/4			Perf. bottom _____
	6 5/8			Perf. top _____
	5 3/16			Perf. bottom _____
	3			
	2			
Liners Used				

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: Moved Rig on location 3-8-85. set 1177' of 9 5/8" casing and cemented with 300SKS Class A 3% C.C. plugdown at 11:00 a.m. 3-10-85. Today drilling at 2135' & soaping hole.

3-17-85
DATE

Carlos W. Hines
DISTRICT WELL INSPECTOR

00/29/2023

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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

_____ 09/29/2023
DISTRICT WELL INSPECTOR

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

RECEIVED

MAR 20 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4115

Oil or Gas Well _____
(KIND)

Company Allegheny Western

Address _____

Farm Imperial Coal Co.

Well No. Imperial # 32

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			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names F.W.A. Drilling Co. Rig # 32

Remarks: set 2465' of 7" casing & cemented with 1755 Ks. class A. 3900. Plug down at 5:00 a.m. on 3-13-85. T.D. hole at 5050' on 3-14-85. Today moving Rig off location.

3-15-85
DATE

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

Form 26
2/16/82

RECEIVED
MAR 20 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

_____ 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. 039-4115

Oil or Gas Well _____
(KIND)

Company <u>Allegheny Western</u> Address _____ Farm <u>Imperial Coal Co.</u> Well No. <u>Imperial #33</u> District <u>Cabin Creek</u> County <u>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			Kind of Packer _____
	16			
	13			
	10			Size of _____
	8 1/4			Depth set _____
	6 5/8			
	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.

3-25-85

DATE

Carlson H. Hines
09/29/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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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:

Drill well perforation 1/2" x 1/2" x 1/2" in the hole.

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

_____ 09/29/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
APR 1 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 039-4115

Oil or Gas Well _____
(KIND)

Company <u>Allegheny + western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Imperial Coal Co.</u>	16			Size of _____
Well No. <u>Imperial # 22</u>	13			
District <u>Cabin Creek</u> County <u>Kanawha</u>	10			Depth set _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			Perf. bottom _____
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 Petro Services Inc.

Remarks: Did well frac on 3-26-85 Today service Rig on location doing well swab.

3-27-85
DATE

Charles W. H...
DISTRICT WELL INSPECTOR

00/29/2023

Form 26
2/16/82

RECEIVED
APR 1 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

29-May-85

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

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

JAN 8 1986

Company: ALLEGHENY & WESTERN ENERGY CORP. Permit No. 47- 39-4115 (1-25-85)
Farm: IMPERIAL COAL COMPANY Well: IMPERIAL 22 County: KANAWHA

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	-----	-----
16.01	Well Records on Site	-----	-----
16.02	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED Carlos Hively
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 16, 1986
Date

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

27-May-82

0.verse
1-82

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

JAN 8 1982

Permit No. A7-38-112
County: KANAWHA

Company: ALLEGHENY & WESTERN ENERGY CORP.
Well: IMPERIAL 22

Rule	Description	In Compliance
		Yes No
15.06	Notification prior to starting work	
15.04	Prepared before drilling to prevent waste	
15.03	High pressure drilling	
14.01	Required permits at wellsite	
13.05	Adequate Fresh Water Casing	
13.03	Adequate Coal Casing	
12.01	Adequate Production Casing	
12.04	Adequate Cement Strength	
11.02	Casing Type	
10.02	Maintained Access Roads	
10.01	Necessary Equipment to Prevent Waste	
10.04	Required Drilling Pits	
10.05	No Surface or Underground Pollution	
10.07	Requirements for Production & Gathering Pipelines	
10.01	Well Records on Site	
10.01	Well Records Filed	
10.01	Identification Markings	

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

SIGNED

DATE

Your well record was received and recalculation 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 16, 1982
Date

09/29/2023

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

47 - 039 - 4115 -

RECEIVED
JUN - 3 1985

107 Section of NGPA
3 Category Code

5007 feet

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

OIL & GAS DIV.
DEPT. OF MINES

Cabin Creek District
Field Name
Kanawha WV
County State

Area Name Block Number

Date of Lease: N/A
Mo. Day Yr. OCS Lease Number

IMPERIAL #22

Mountaineer Gas Company
Name Buyer Code NA

N/A
Mo. Day Yr.

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 3.400	---	---	3.400
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU ---	D E R E G U L A T E D		---

Agency Use Only
Date Received by Juris. Agency JUN - 3 1985
Date Received by FETC

R H Hess
Name President
Signature [Signature]
Title
APR - 3 1985
Date Application is Completed
304-343-4327
Phone Number

09/29/2023

JUN 28 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: MARCH 15, 19 85

1100

AGENCY USE ONLY *Dev.*

Applicant's Name: Allegheny & Western Energy

Address: P.O. Box 2587

Charleston, WV 25329

Gas Purchaser Contract No. _____

Date of Contract NA
(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 _____

WELL DETERMINATION FILE NUMBER
850603-1073-039-4115
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: *RH Hess*

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

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

- 03 New Onshore Production Well
 - 103 New Onshore Production Well

- 07 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

- 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 - 3 1985

OIL & GAS DIV.
DEPT. OF MINES

JUN - 3 1985

Date Received

JUN 28 1985

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.: 47-039-4115 Well Name: IMPERIAL # 22

West Virginia Office of Oil and Gas County: KANAUAHA

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 = 160 * 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 = 160 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{160} \text{ *)} = \underline{112} API Units$

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***		
<u>3102'</u>	<u>50.42'</u>		

Total Devonian Interval 1940'

Total Less Than 0.7 (Shale Base) 11'

% Less Than 0.7 (Shale Base Line) = $\frac{0.0057}{1940} \times 100 = \underline{0.57\%}$

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.

Date MARCH 15, 1985

Operator's Well No. Imperial 22

API Well No.

47 - 039 - 4115
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 1272
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. ROA-1

Meter Chart Code N/A

Date of Contract 6-21-84

* * * * *

Date surface drilling began: 3/8/85

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 = (15 + 695) + (Specific Gravity X Depth)
BHP = (710 + 43)
BHP = 753

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)(i) 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.

RH Hess

STATE OF WEST VIRGINIA

COUNTY OF KANAWHA, TO-WIT:

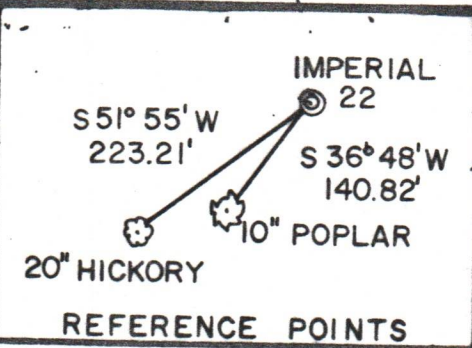
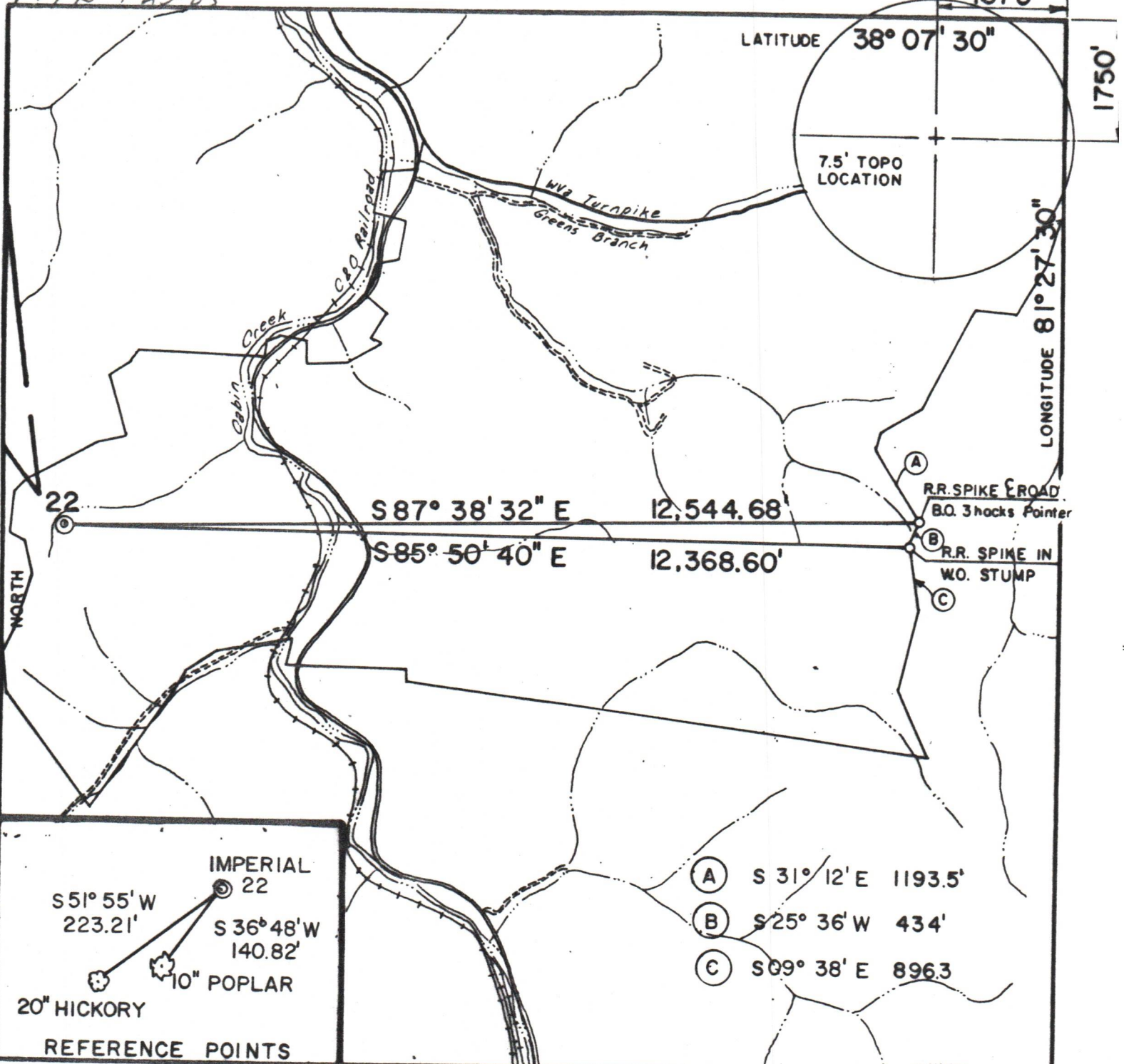
I, Deborah J. Kuhl Auxier, a Notary Public in and for the state and county aforesaid, do certify that R.H. Hess, whose name is signed to the writing above, bearing date the day of February, 1985, 09/29/2023 acknowledged the same before me, in my county aforesaid.

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

(NOTARIAL SEAL)

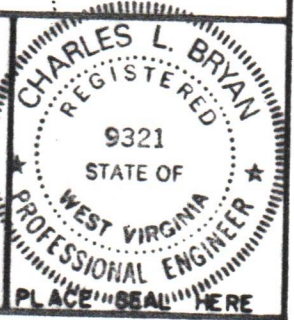
Deborah J. Kuhl Auxier
Notary Public

1772 1-25-85



FILE NO. 10-0002
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1" IN 2500'
 PROVEN SOURCE OF ELEVATION USGS. BM 99KS 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)



DATE JANUARY 18 1985
 OPERATOR'S WELL NO. 22
 API WELL NO. _____
47 - 039 - 4115
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1272 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 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 5990'
 WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND C. BAER
 ADDRESS PO. BOX 2587 ADDRESS SAME
CHARLESTON WVA 25329

09/29/2023