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FILE COPY

JAN - 8 1985

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



1) Date: January 8, 19 85
 2) Operator's Well No. Imperial #19
 3) API Well No. 47 - 039 - 4114
 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: 1473 Watershed: Greens Branch
 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 1100 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, Injun, Weir, Devonian Shale
- 12) Estimated depth of completed well, 5990 feet
- 13) Approximate trata depths: Fresh, 940 feet; salt, 1840 feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	9 5/8"	SMLS	32	X		1200'	1200'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes
Intermediate									
Production Tubing	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required By Rule 15.06
Liners									Perforations: Top Bottom

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-039-4114

January 9, 19 85
Date

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

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

Permit expires January 9, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: 5	Agent: MN	Plat: MN	Casing: MN	Fee: 01463
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Margaret J. Hesse
 Administrator, Office of Oil and Gas

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

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

File 09/29/2023



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OIL & GAS DIV.
DEPT. OF MINES

OFFICE USE ONLY

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

1. LOCATION: Cabin Creek, Kanawha County, West Virginia

2. WELL OPERATOR: Mine Safety & Health Administration, P.O. Box 2587, Charleston, WV 25329

3. OIL & GAS OPERATOR TO BE NOTIFIED: Carolos Hively, 223 Birch Ridge Rd., Elkhorn, WV 25071

4. PROPOSED WELL WORK: Drilling, Completion, Other (Specify: _____)

5. STRATIGRAPHIC INFORMATION: Intermix, Devonian Shale

6. APPROXIMATE DEPTH OF WELL: 3000 feet

7. APPROXIMATE DIAMETER OF WELL: 3 5/8" (3 1/2" to 4 1/2")

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: _____

09/29/2023

1) Date: January 8, 19 85
2) Operator's
Well No. Imperial #19
3) API Well No. 47 - 039 - 4114
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 8 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 R. H. Hess
Its President
Address P. O. Box 2587
Charleston, WV 25329
Telephone (304) 343-4327

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JAN - 9 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



1) Date: January 8, 19 85
 2) Operator's Well No. Imperial #19
 3) API Well No. 47 State 039 County Permit

**STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION**

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas _____
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 1473 Watershed: Greens Branch
 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 Name Carlos Nively
 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) Injun, Weir, Devonian Shale
- 11) GEOLOGICAL TARGET FORMATION, _____
- 12) Estimated depth of completed well, _____ feet
 13) Approximate trata depths: Fresh, 940 feet; salt, 1840 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	<u>9 5/8"</u>	<u>SMLS</u>	<u>32</u>	<input checked="" type="checkbox"/>		<u>1200'</u>	<u>1200'</u>	<u>300 cts</u>	<u>By Rule 15.01</u>
Coal	<u>7"</u>	<u>SMLS</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>2400'</u>	<u>2400'</u>	<u>200 cts</u>	Sizes
Intermediate									
Production	<u>4 1/2"</u>	<u>SMLS</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5990'</u>	<u>5990'</u>	<u>200-400 sks</u>	Depths set <u>Or As Required</u>
Tubing									<u>By Rule 15.05</u>
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. 9 Date 85

(Signature) Date: _____

(Signature) Date: _____

President

09/29/2023

Surface Owner



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

**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.

09/29/2023
Surface Owner



DEC. 28 1984

IV-9
(Rev 8-81)

DATE December 17, 1984

WELL NO. Imperial #19

API NO. 47 - 039 - 4114

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

Allegheny &
COMPANY NAME 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: JAN. 3 1985

(Date)

R. C. Alford
(SCD Agent)

"FIELD REVIEWED"

"SEE ATTACHED COMMENTS"

ACCESS ROAD *OK MW*

LOCATION

Structure Drainage Ditch (A)
Spacing Along Access Road
Page Ref. Manual 2-12

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.

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JAN - 8 1985

REVEGETATION

OIL & GAS DIV.
DEPT. OF MINES

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 Ry. 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 Ry. 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.

George F. Rollins Jr.

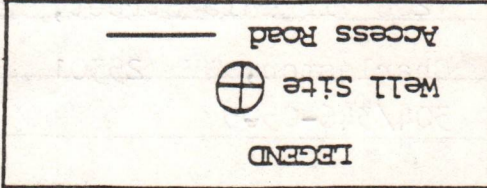
PLAN PREPARED BY A E Associates, Inc. 09/29/2023

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

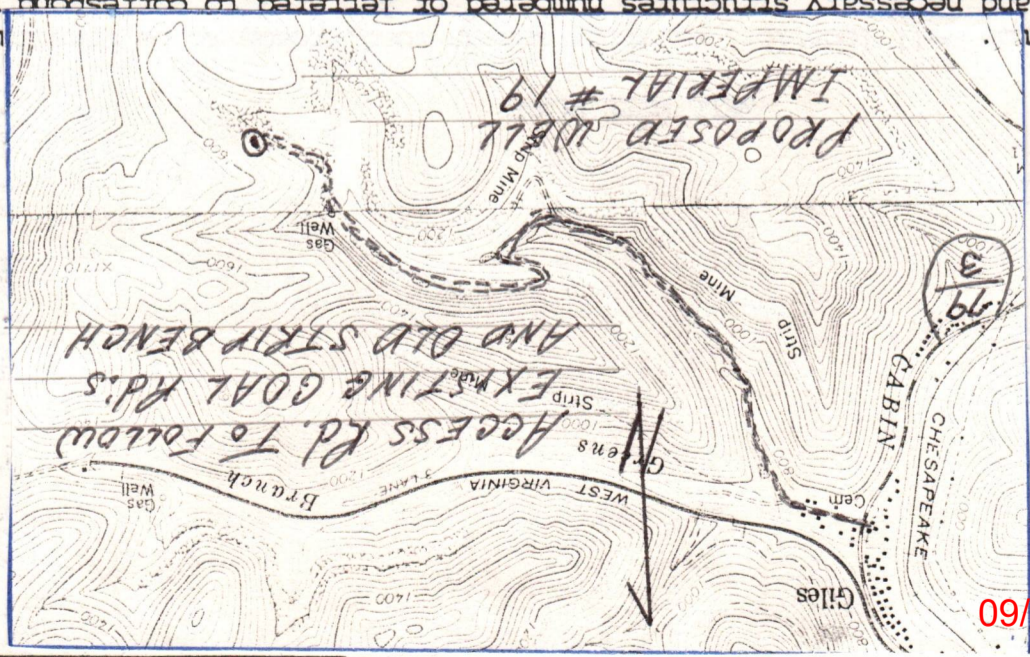
ADDRESS 1206 Virginia Street, East
Charleston, WV 25301
PHONE NO. 304/346-0505

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE WELL LOCATION ESKALE 7.5' CEDAR GROVE 7.5' ACCESS RD.

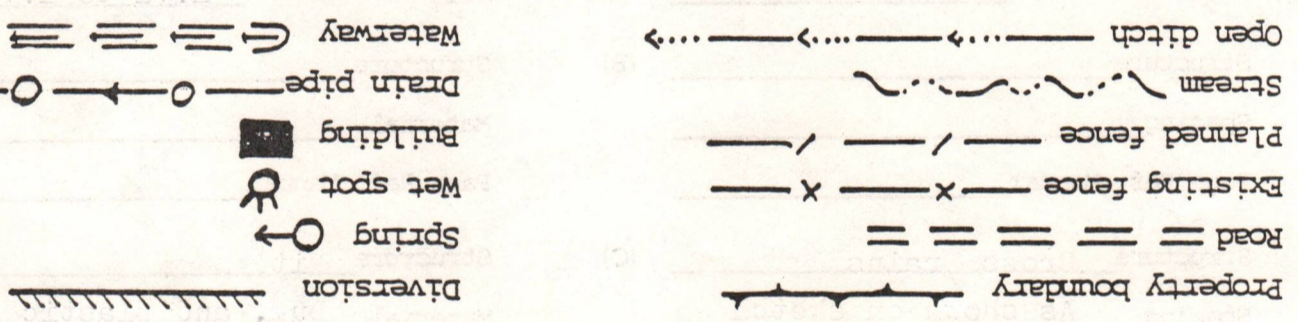


09/29/2023



Sketch to include drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

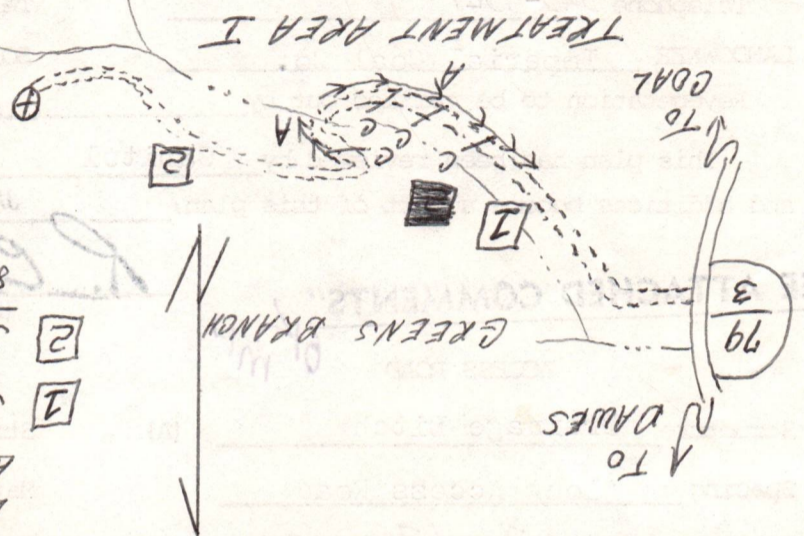
LEGEND



LENGTH OF STAGING OF ACCESS RD. SLOPE CROSS DRAINS

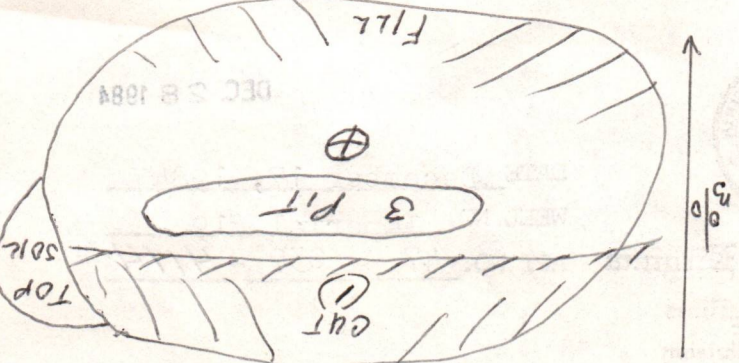
1	5200'	4 to 8% 95'
2	3500'	2 to 5% AS NEEDED
8700'		TOTAL

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



NOTE: ACCESS RD TO FOLLOW EXISTING GOAL RD. AND STRIP BENCH. RDS TO BE UPGRADED WITH EROSION CONTROL IN MIND. ALL OUTLETS DRAIN. AGE AND DITCHES WILL BE TO STABLE AREAS. ALL BRUSH AND TIMBER TO BE CUT FRIE TO ANY EARTH MOVEMENT. TIMBER #4 UP TO BE STACKED.

TREATMENT AREA II





1) Date: January 8, 19 85
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 State County Permit

Waiver

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

- 4) WELL TYPE: A Oil / Gas X /
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 District: Cabin Creek County: Kanawha Quadrangle: Eskdale
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 Address P. O. Box 2587 Address P. O. Box 2587
Charleston, WV 25329 Charleston, WV 25329
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Carlos Hively
 Address 223 Pinch Ridge Rd.
Elkview, WV 25071
- 9) DRILLING CONTRACTOR: Name
 Address
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation X /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Injun, Weir, Devonian Shale
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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	Left in well		
Conductor									Kinds
Fresh water	9 5/8"	SMLS	32	X		1200'	1200'	300 cts	By Rule 15.01
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Require
Tubing									By Rule 15.05
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. 9, 19 85

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

09/29/2023
 Coal Owner

IV-35
Rev 8-81)

RECORDED
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 Imperial # 19
Well No. Imperial Coal Company
Farm 47 - 039 - 4114
API No. 47 - 039 - 4114

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: 1473 Watershed Greens Branch
District: Cabin Creek County Kanawha Quadrangle Eskdale

COMPANY Allegheny & Western Energy
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
GENERAL RIGHTS OWNER Imperial Coal Company
ADDRESS P.O. Box 273, Charleston, WV
OIL AND GAS INSPECTOR FOR THIS WORK
C. Hively ADDRESS Elkview, WV
PERMIT ISSUED 1-9-85
DRILLING COMMENCED 1-27-85
DRILLING COMPLETED 2-5-85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-1/8	40	40	To Surf
9 5/8	1110	1110	400SX
8 5/8			
7	2370	2370	175SX
5 1/2			
4 1/2	5006	5006	225SX
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3338 feet
Depth of completed well 5006 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 940 feet; Salt 1840 feet
Coal seam depths: N/A Is coal being mined in the area? NO

IN FLOW DATA
Producing formation BG LM Berea Pay zone depth 2418 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 25 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 520 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Devonian Shale Pay zone depth 3338 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 218 Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 685 psig (surface measurement) after 24 hours shut in

09/29/2023

KAN 4114

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

Perforate 3615 - 4718 W/40 Holes
 2808 - 3558 W/40 Holes
 2420 - 2600 W/40 Holes

Acidize with 9,000 gal 15% HCl, 170,000 scfN₂
 Frac with 1,800 gal 28% HCl, 60,000 20/40 sd, 8 1,000 MSCFN₂
 Frac with 1,200 gal 28% HCl, 60,000 # 20/40sd & 1,108 MSCN₂

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 & SHALE			0	510	
SLATE & SHALE			510	910	
SHALE			910	1200	
SANDSTONE			1200	1480	
SHALE			1480	2130	
PENCIL CAVE			2130	2140	
SHALE			2140	2150	
LITTLE LIME			2150	2350	
SHALE			2350	2418	
BIG LIME			2418	2618	
SHALE			2618	2798	
BIG INJUN			2798	2838	
SHALE			2838	2906	
UPPER WEIR			2906	2950	
SHALE			2950	3258	
COFFEE SHALE			3258	3268	
BEREA			3268	3338	
DEVONIAN SHALE			3338	5006	TD

(Attach separate sheets as necessary)

ALLEGHENY & WESTERN ENERGY CORPORATION
 ALLEGHENY & WESTERN ENERGY CORPORATION

Well Operator

09/29/2023

By: R J Mess

Date: March 18, 1985

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

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

RECEIVED

FEB 5 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT
DEPT. OF MINES

Permit No. 039-2114

Oil or Gas Well _____
(KIND)

Company <u>Allegheny & western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
Address _____	16			Kind of Packer _____
Farm <u>Imperial Coal Co.</u>	13			
Well No. <u>Imperial # 19</u>	10			Size of _____
District <u>Cabin Creek</u> County <u>Kanawha</u>	8 1/4			
Drilling commenced _____	6 3/4			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names F.W.A. Drilling Co. Rig # 13

Remarks:
Moved Rig on location 1-26-85. started drilling Rathole, Blowed out Rat hole & cemented with 400 sacks. Class A. Today drilling surface at 40' deep & soaping hole.

1-28-85
DATE

Carlos W. Hinds
DISTRICT WELL INSPECTOR

09/29/2023

RECEIVED
FEE \$ - 1880
OIL AND 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

FEB 5 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 039-4114

Oil or Gas Well _____
(KIND)

Company <u>Allegheny & western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>Imperial Coal Co.</u>	16			
Well No. <u>Imperial #19</u>	13			Size of _____
District <u>Cabin Creek County Kanawha</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names F.W.A. Drilling Co. Rig # 13

Remarks:
Set 1265' of 9 5/8" casing & cemented with 475 SKS. of class A. 3% cc. Plugdown at 10:00 am.

1-30-85

DATE

Carlos W. Hines

DISTRICT WELL INSPECTOR

08/29/2023

Form 26
2/16/82

RECEIVED
FEB 2 - 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							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
FEB 13 1985
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. D39-4114

Oil or Gas Well _____
(KIND)

Company <u>Allegheny Western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>Imperial Coal Co.</u>	16			
Well No. <u>Imperial #19</u>	13			Size of _____
District <u>Cabin Creek</u> County <u>Kanawha</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 1/2			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names F.W.A. Drilling Co. Rig #13

Remarks:
set 2605' of 7" casing & cemented with 175 SKS. of Class A. 3% C.C. plugdown at midnight 2-3-85. Today drilling at 4180' deep & dusting hole.

2-4-85
DATE

Carlson Hines
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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							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

RECEIVED

FEB 13 1985

OIL & GAS DIVISION
DEPT. OF MINES

Oil or Gas Well _____
(KIND)

INSPECTOR'S WELL REPORT

Permit No. 039-4114

Company <u>Allegheny & western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Imperial Coal Co.</u>	16			Kind of Packer _____
Well No. <u>Imperial # 19</u>	13			
District <u>Cabin Creek</u> County <u>Kanawha</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names F.W.A. Drilling Co. Rig # 13

Remarks: T.D. hole at 5006' deep on 2-5-85. Today moving Rig off location.

2-6-85
DATE

Carlos W. King
DISTRICT WELL INSPECTOR

09/29/2023

Form 26
2/16/82

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

RECEIVED
FEB 13 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 039-4114

Company <u>Allegheny & Western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Imperial Coal Co.</u>	16			Kind of Packer _____
Well No. <u>Imperial # 19</u>	13			
District <u>Cabin Creek County Kanawha</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

Doing well perforation young wireline service doing job.

2-8-85
DATE

Carlson H. Hines
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

FEB 20 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 039-4114

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Allegheny & Western</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Imperial Coal Co.</u>	13			
Well No. <u>Imperial #19</u>	10			Size of _____
District <u>Cabin Creek & County Kanawha</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbla., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Doing well Frac, Dowell doing Frac.

2-11-85
DATE

Carlos W. Hines
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

JAN 8 1986

Company: ALLEGHENY & WESTERN ENERGY CORP. Permit No. 47- 39-4114 (1-09-85)
Farm: IMPERIAL COAL COMPANY Well: IMPERIAL #19 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	-----	-----
16.05	Identification Markings	-----	-----

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

SIGNED *Carl Stuebel*
DATE 12/23/85

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. B. B.
Administrator

January 16, 1986
Date

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 1988

Imperial Coal Company Well: IMPERIAL #19 County: KANAWHA Permit No. 47-39-4114 (1-09-85)

Rule	Description	In Compliance	
		Yes	No
23.04	Notification prior to starting work		
23.04	Prevent before drilling to prevent waste		
23.03	High pressure drilling		
14.07	Required permits of wellbore		
17.03	Adequate Fresh Water Casings		
17.02	Adequate Coal Casings		
18.01	Adequate Production Casings		
13.04	Adequate Cement Strength		
13.05	Cement Type		
23.02	Maintained Access Roads		
23.01	Necessary Equipment to prevent waste		
23.04	Required Drilling Pipe		
23.02	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
18.01	Well Records on Site		
18.02	Well Records Filed		
18.03	Identification Markings		

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

SIGNED

DATE

Your well record was received and recommission requirements approved. In accordance with Chapter 23, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

[Signature]
Administrator

January 16, 1988

Date

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

47 - 039 - 4114

RECEIVED

107
Section of NGPA

Category Code JUN - 3 1985

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

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

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

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

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

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

5.0 Location of this well: [Complete (a) or (b).]
 (a) For onshore wells (35 letters maximum for field name)
 (b) For OCS wells:
 Area Name _____ Block Number _____

Cabin Creek District Field Name
Kanawha County WV State
 Date of Lease: 1 N/A 1 Mo. Day Yr. NA OCS Lease Number

(c) Name and identification number of this well: (35 letters and digits maximum)
 (d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum)

IMPERIAL #19

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:

Mountaineer Gas Company Name NA
1 N/A 1 Mo. Day Yr. Buyer Code

(c) Estimated total annual production from the well:

_____ Million Cubic Feet

	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-))	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places)	S/MMBTU <u>3.400</u>	_____	_____	<u>3.400</u>
8.0 Maximum price (As of filing date. Complete to 3 decimal places)	S/MMBTU _____	<u>DEREGULATED</u>	_____	_____

9.0 Person responsible for this application:

Agency Use Only
 Date Received by Agency JUN - 3 1985
 Date Received by NGPA _____

R. H. Hess Name President Title
R. H. Hess Signature
MARCH 22, 1985 Date Application is Completed
304-343-4327 Phone Number

FR-101 (8-82)

09/29/2023

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: MARCH 22, 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. KAN-1

Date of Contract NA
(Month, day and year)

First Purchaser: Mountaineer Gas Company ⁶⁴⁰

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

(City) (State) (Zip Code)

FERC Seller Code _____

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: *R H 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

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 - 3 1985

OIL & GAS DIV.
DEPT. OF MINES

JUN - 3 1985
ate 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.: 47-039-4114 Well Name: Imperial #19

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 = 140 * 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 = 140 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{140} \text{ *)} = \underline{98} API Units$

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***		
3340'	5022'		

Total Devonian Interval 1682'

Total Less Than 0.7 (Shale Base) 18'

% Less Than 0.7 (Shale Base Line) = $\frac{0.0107}{1} \times 100 = \underline{1.07} \%$

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 22, 1985

Operator's Well No. IMPERIAL 19

API Well No. 47 - 039 - 4114
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 _____

WELL OPERATOR Allegheny & Western Energy Corp. Watershed

ADDRESS P.O. Box 2587
Charleston, WV 25329

Dist. Cabin Crk. County Kanawha Quad. Eskdale

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: 1-27-85

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 + 685) + (Specific Gravity X Depth)
BHP = (700 + 51)
BHP = 751

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.

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 22 day of March, 1985, 03/29/2023 acknowledged the same before me, in my county aforesaid.

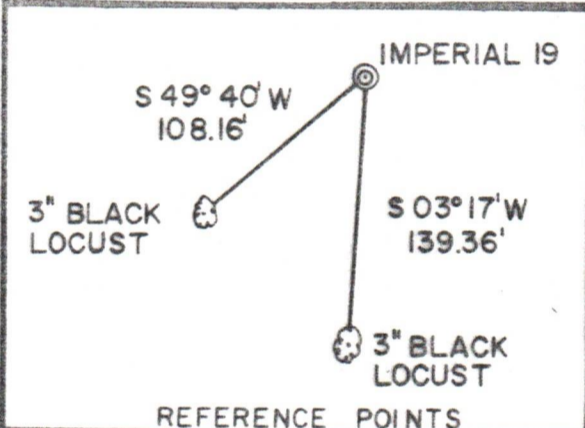
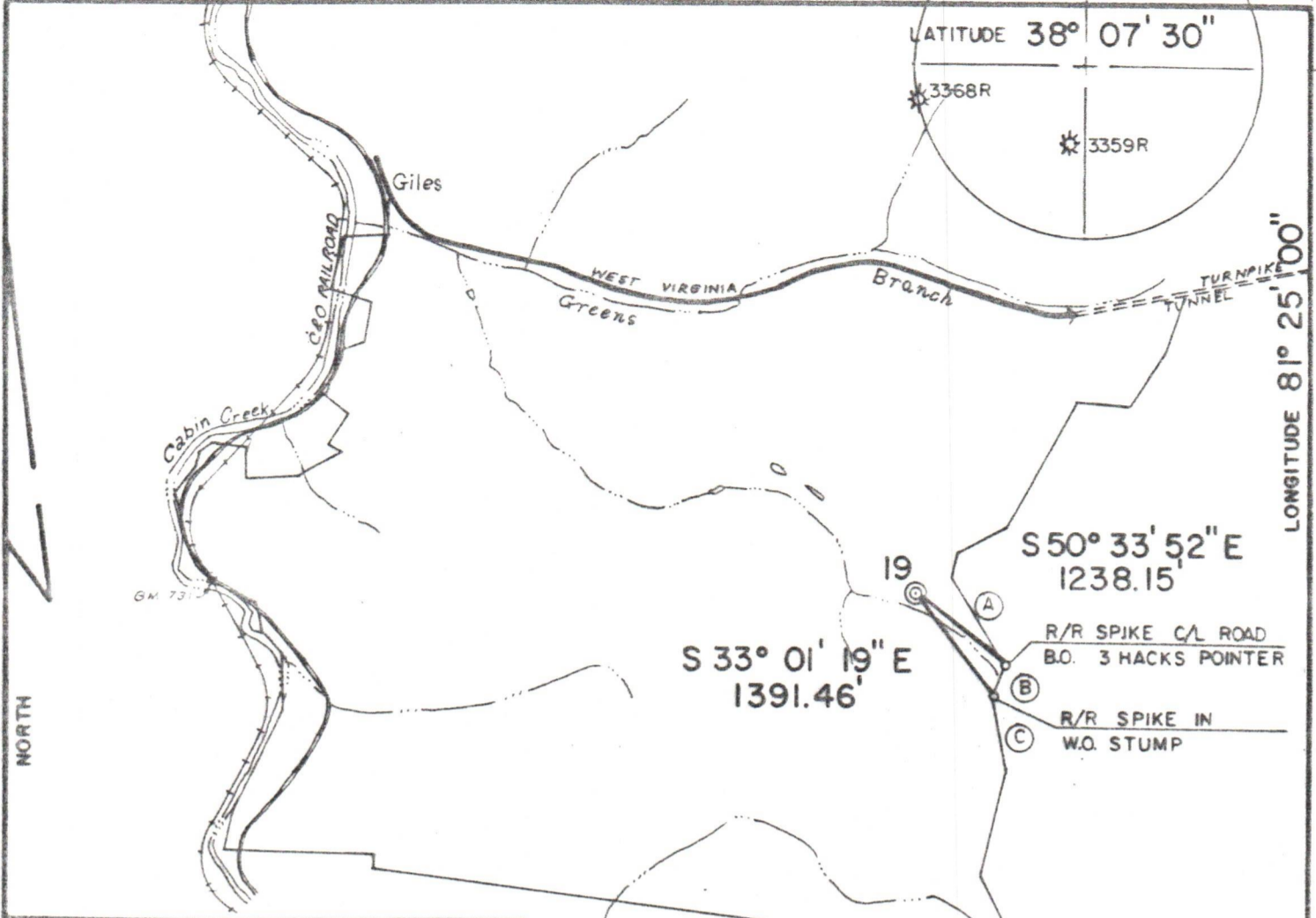
Given under my hand and official seal this 22 day of March, 1985.

My term of office expires on the 29 day of May, 1990.

Deborah J. Kuhl Auxier
Notary Public

NOTARIAL SEAL)

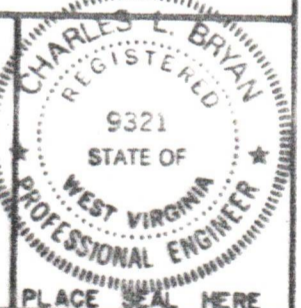
17127-E-85



- (A) S 31° 12' E 1193.5'
- (B) S 25° 36' W 434'
- (C) S 9° 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)



DATE DECEMBER 27 19 84
 OPERATOR'S WELL NO. 19
 API WELL NO. 47-039-4114
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

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

LOCATION: ELEVATION 1473 WATER SHED GREENS BRANCH
 DISTRICT CABIN CREEK COUNTY KANAWHA
 QUADRANGLE ESKDALE

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 P.O. BOX 2587 ADDRESS SAME
CHARLESTON, WV 25329

09/29/2023