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FEB 14 1985

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



1) Date: February 8, 19 85
 2) Operator's Well No. Imperial #28
 3) API Well No. 47 - 039 - 4123
 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: 1158 Watershed: Greens Branch
 District: Cabin Creek County: Kanawha Quadrangle: Cedar Grove
- 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roland C. Baer, Jr.
 Address P. O. Box 2587 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, Injun, Weir, Devonian Shale
- 12) Estimated depth of completed well, 5290 feet
 13) Approximate strata depths: Fresh, 600 feet; salt, 1270 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		800	800	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		1650	1650	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5290	5290	200-400 sks	Depths set Or As Required
Tubing									By Rule 15.01
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-039-4123

February 14, 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 February 14, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>5</u>	<u>WVIMM/MW/1602</u>			

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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



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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. OPERATOR: *Allegany & Western Energy Corp.*
 2. LOCATION: *Green Branch*
 3. WELL NAME: *Green Branch*
 4. WELL DEPTH: *1158*
 5. WELL TYPE: *Oil & Gas*
 6. WELL STATUS: *Drilling*
 7. WELL OWNER: *Allegany & Western Energy Corp.*
 8. WELL ADDRESS: *Green Branch, Caber Creek, Kanawha County, West Virginia*
 9. WELL COORDINATES: *800 800*
 10. WELL PERMIT NUMBER: *1100*

DATE	DESCRIPTION	BY	REMARKS
12-15-81	Drilling completed	J. Smith	Well depth 1158 ft.
1-10-82	Well work started	J. Smith	Drilling resumed
2-14-82	Well Record received	J. Smith	Record of operations
2-14-82	Reclamation completed	J. Smith	Site restored

OFFICE USE ONLY

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

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

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

5(i) COAL OPERATOR None
Address

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

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

(iii) Name
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 February, 1985.

My commission expires 8/13, 1991.

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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OIL & GAS DIV.
DEPT. OF MINES

09/29/2023

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FEB 14 1988

OIL & GAS DIV
DEPT. OF MINES

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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OIL & GAS DIV
DEPT. OF MINES



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 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 X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
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 District: Cabin Creek County: Kanawha Quadrangle: Cedar Grove
- 6) WELL OPERATOR Allegheny & Western Energy Corp. 7) DESIGNATED AGENT Roland C. Baer, Jr.
 Address P. O. Box 2587 Address P. O. Box 2587
Charleston, WV 25329 Charleston, WV 25329
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Carlos Nively 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, 5290 feet
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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		800	800	300 cts		By Rule 15.05
Coal	7"	SMLS	23	X		1650	1650	200 cts		Sizes
Intermediate										
Production	4 1/2"	SMLS	10.5	X		5290	5290	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 Date

Imperial Coal Company
 (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)

FEB. 7 1985

DATE February 4, 1985
WELL NO. Imperial #28
API NO. 47 -039 -4123

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

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

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

LANDOWNER Imperial Coal Co.

SOIL CONS. DISTRICT Capitol

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

This plan has been reviewed by Capitol SCD. All corrections and additions become a part of this plan: FEB. 11 1985 (Date)

R. C. Alford
(SCD Agent)

"SEE ATTACHED COMMENTS"

ACCESS ROAD

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

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

Structure _____
Spacing As shown
Page Ref. Manual _____

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

Structure Cross Drains
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 Jr
A E Associate 09/29/2023

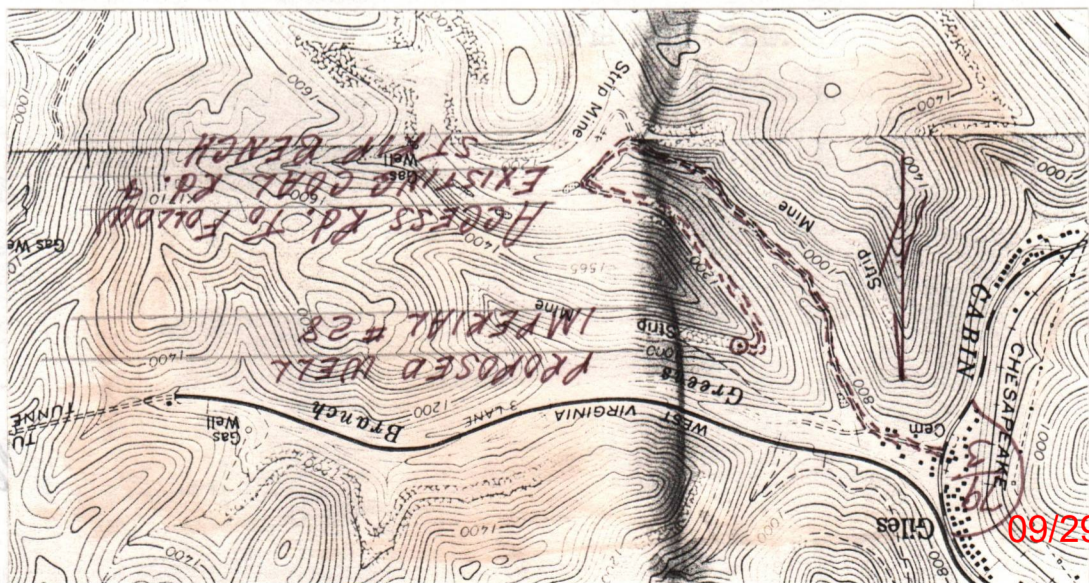
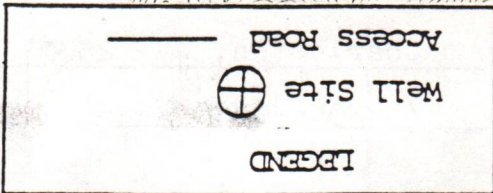
ADDRESS 1206 Virginia Street, East
Charleston, WV 25301

PHONE NO. 304/346-0505

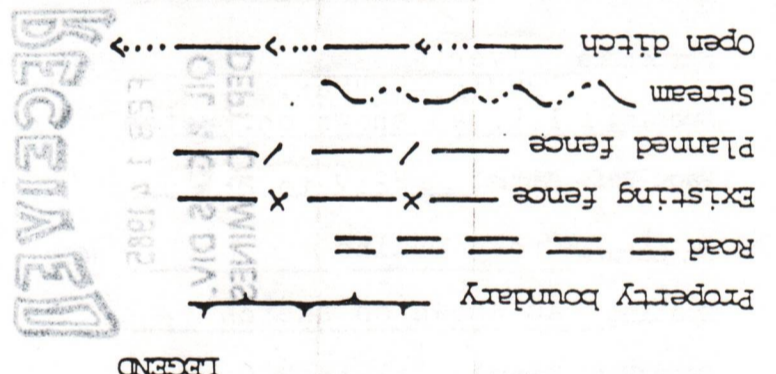
NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

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DEPT. OF MINES

ATTACH OR PHOTOOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE CEDAR GROVE 7.5.

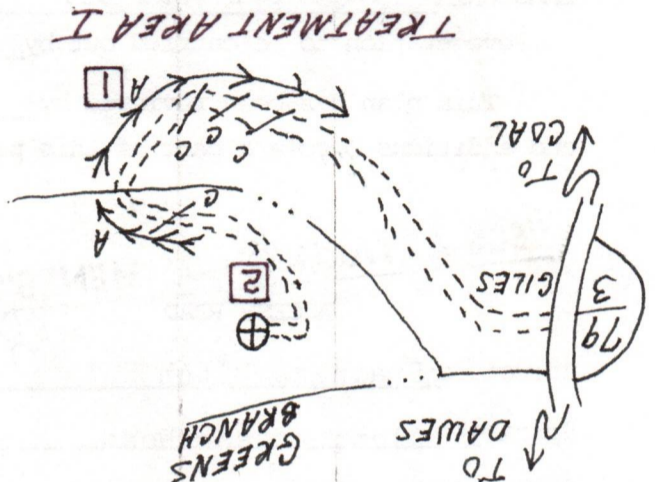


Sketch to include well location, existing access road, roads to be constructed, well sites, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

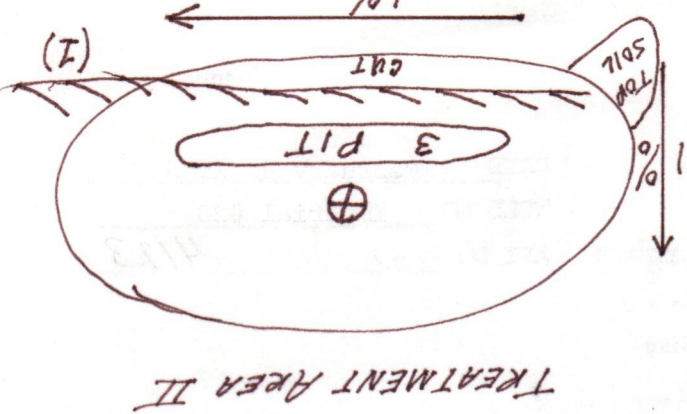


SPACING OF ACCESS RD. SLOPE CROSS DRAINS

1	5200'	4 to 8%	95'
2	2100'	2 to 4%	As Needed
			7300' TOTAL



NOTE: Access Rd. to follow existing coal rd. a strip bench. Rds. to be upgraded with erosion control in mind. All outlets of drainage & ditches will be to stable areas. All brush & timber to be cut prior to any earth movement. Timber to be up to be stacked. Location to be built on old strip bench top soil to be stock piled for reclamation.



TREATMENT AREA II



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

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 Name Carlos Hively Name _____
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Elkview, WV 25071
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	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>5/8"</u>	<u>SMLS</u>	<u>32</u>	<input checked="" type="checkbox"/>		<u>800</u>	<u>800</u>	<u>300 cts</u>	<u>By Rule 15.05</u>
Coal	<u>7"</u>	<u>SMLS</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1650</u>	<u>1650</u>	<u>200 cts</u>	Sizes
Intermediate									
Production	<u>1 1/2"</u>	<u>SMLS</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5290</u>	<u>5290</u>	<u>200-400 sks</u>	Depths set <u>Or As Required</u>
Tubing									<u>By Rule 15.01</u>
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: Feb. 8, 19 85

Imperial Coal Company
 By [Signature]
 Its President

09/29/2023
 Coal Owner

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MAR 28 1985

Date March 15, 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Operator's Well No. Imperial # 28
Farm Imperial Coal Company
API No. 47 - 039 - 4123

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: 1158 Watershed Greens Branch
District: Cabin Creek County Kanawha Quadrangle Cedar Grove

COMPANY Allegheny & Western Energy

ADDRESS P.O. Box 2587, Charleston, WV

DESIGNATED AGENT R. C. Baer

ADDRESS P.O. Box 2587, Charleston, WV

SURFACE OWNER Imperial Coal Company

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

MINERAL RIGHTS OWNER Imperial Coal

ADDRESS P.O. Box 273, Charleston, WV

OIL AND GAS INSPECTOR FOR THIS WORK

C. Hively ADDRESS Elkview, WV

PERMIT ISSUED 2-14-85

DRILLING COMMENCED 2-16-85

DRILLING COMPLETED 2-22-85

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

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10X	40	40	To Surf
9 5/8	1050	1050	300SX
8 5/8	2326	2326	175SX
7			
5 1/2			
4 1/2	4856	4856	250SX
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3023 feet

Depth of completed well 4918 feet Rotary X / Cable Tools

Water strata depth: Fresh 600 feet; Salt X feet

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

OPEN FLOW DATA

Producing formation Berea Pay zone depth 2953 feet

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

Final open flow 205 657 Mcf/d Final open flow ___ Bbl/d

Time of open flow between initial and final tests ___ hours

Static rock pressure 510 psig (surface measurement) after 24 hours shut in 09/29/2023

(If applicable due to multiple completion--)

Second producing formation Devonian Pay zone depth 3023 feet

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

Final open flow 452 Mcf/d Oil: Final open flow ___ Bbl/d

Time of open flow between initial and final tests ___ hours

Static rock pressure 700 psig (surface measurement) after 24 hours shut in

KAN 4123

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

Perforate 2479-3000 with 40 holes
 Perforate 3004 - 4918 with 40 holes
 Frac with 1,000 gal 15% HCl, 60,000# 20/40 sand 1,100 MMscfN₂
 Frac with 2000 gal 15% HCL, 60,000# 20/40 sand 1,098MM scfN₂.

WELL LOG

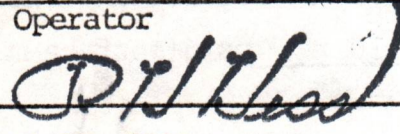
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale			0	1131	
Slate and Shale			1131	1531	
Shale			1531	2121	
Sandstone			2121	2151	
Shale			2151	2166	
Little Lime			2166	2361	
Shale			2361	2429	
Big Lime			2429	2537	
Shale			2537	2541	
Big Injun			2541	2584	
Shale			2584	2591	
Upper Weir			2591	2943	
Coffee Shale			2943	2953	
Berea			2953	3023	
Devonian Shale			3023	4918	TD

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation
 Well Operator

09/29/2023

By:



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 27 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4193

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			Kind of Packer _____
Well No. <u>Imperial # 28</u>	13			
District <u>Cabin Creek County Kanawha</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 1/2			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 _____ bbla., 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 E.W.A. Drilling Co. Rig # 13

Remarks: Moved Rig on location 2-17-85. Set 10 50' of 9 5/8" casing & cemented with 3005Ks Class A 3% cc. Plug down at 3:00 p.m. on 2-18-85. Today drilling at 1910' deep & Soaping hole.

2-19-85
DATE

Carlos W. Hines
DISTRICT WELL INSPECTOR

RECEIVED
FEB 27 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
FEB 27 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4123

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			Kind of Packer _____
Well No. <u>Imperial # 38</u>	13			
District <u>Cabin Creek County Kanawha</u>	10			Size of _____
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 2336' of 7" casing & cemented with 1755 lbs. Class A. 3% ec. Plug down at 1:30 p.m. on 2-20-85. Today T.D. hole at 4915' deep & pulling drill pipe.

2-22-85
DATE

Carlos W. Hines
DISTRICT WELL INSPECTOR

09/29/2023

2/16/82

RECEIVED FEB 27 1982

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 _____

Table with columns: Liner, Location, Amount, Packer, Location. Sub-columns: PLUGS USED AND DEPTH PLACED (CEMENT-THICKNESS, WOOD-SIZE, LEAD), BRIDGES (CONSTRUCTION-LOCATION), CASING AND TUBING (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
MAR 5 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4123

Oil or Gas Well _____
(KIND)

Company <u>Alleghenywestern</u> Address _____ Farm <u>Imperial Coal Co.</u> Well No. <u>Imperial # 38</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 _____ bbla., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
	16			Kind of Packer _____
	13			
	10			Size of _____
	8 1/4			
	6 3/8			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
Liners Used			Perf. top _____	
			Perf. bottom _____	

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

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks:

doing well frac Dowell doing frac.

2-27-85

DATE

Carlos W. King 09/29/2023
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

RECEIVED

MAR 5 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

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

INSPECTOR'S WELL REPORT

Permit No. 039-4123

Oil or Gas Well _____
(KIND)

Company Allegheny western

Address _____

Farm Imperial Coal Co.

Well No. Imperial # 28

District Cabin Creek County Kanawha

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

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

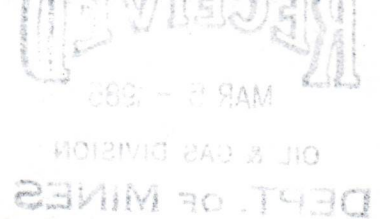
Remarks:

Service Rig doing well swab.

3-1-85
DATE

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

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



RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

JAN 8 1986

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
April 3, 1985

COMPANY Allegheny & Western Energy Corp. PERMIT NO 039-4123 (2-14-85)
P. O. Box 2587 FARM & WELL NO Imperial Coal Co. #28
Charleston, West Virginia 25329 DIST. & COUNTY Cabin Creek/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 Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strenght	_____	_____
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 12/23/85

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. H. B.
Administrator-Oil & Gas Division

January 17, 1986

DATE

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



JAN 8 1953

State of Texas

Department of Energy
Oil and Gas Division

Lubbock, Texas

January 8, 1953
The Honorable
Governor of the State of Texas

Aluminum & Westinghouse Electric Corp. (2-11-53)

P.O. Box 2221

1517 North Tenth Street

Lubbock, Texas

Dear Sir:

Reference is made to your letter of January 7, 1953,

concerning the proposed sale of the

Aluminum & Westinghouse Electric Corp.

to the State of Texas.

The proposed sale of the

Aluminum & Westinghouse Electric Corp.

to the State of Texas is being

considered by the State of Texas.

Very truly yours,

W. W. Stewart

Commissioner of Energy

Oil and Gas

Lubbock, Texas

January 17, 1953

09/29/2023

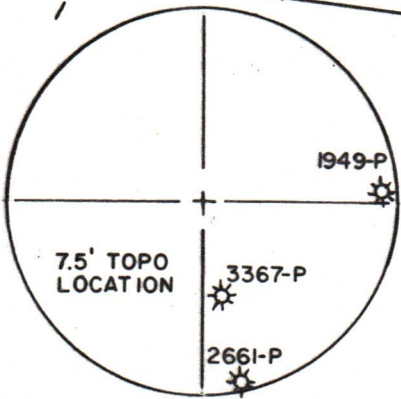
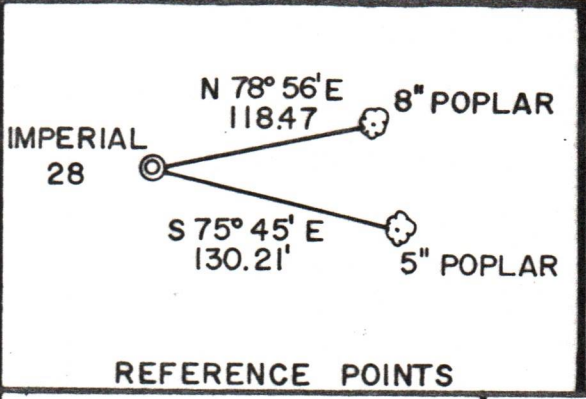
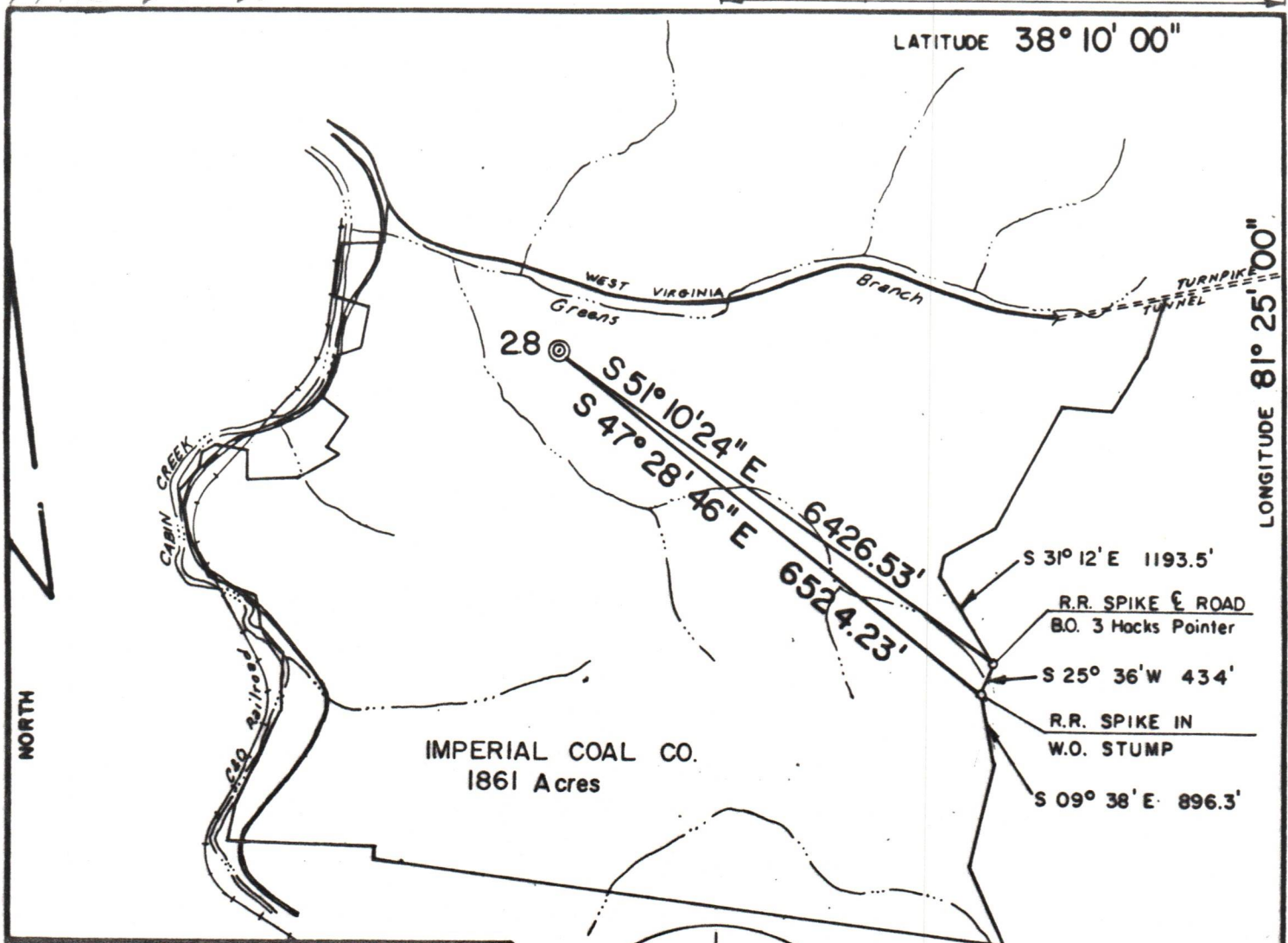
MX 2.14.85

6750'

LATITUDE 38° 10' 00"

LONGITUDE 81° 25' 00"

12,975'



FILE NO. 10-0002

DRAWING NO. _____

SCALE 1" = 2000'

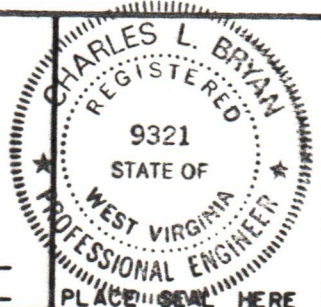
MINIMUM DEGREE OF ACCURACY 1 in 2500'

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

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Charles L. Bryan

R. P. E. 9321 L. L. S. _____



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

FORM IV-6
(8-78)



Department of Mines
Oil & Gas Division

DATE JANUARY 24 19 85

OPERATOR'S WELL NO. 28

API WELL NO. 47-039-4123

STATE 47 COUNTY 039 PERMIT 4123

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___

(IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)

LOCATION: ELEVATION 1158 WATER SHED GREENS BRANCH

DISTRICT CABIN CREEK COUNTY KANAWHA

QUADRANGLE CEDAR GROVE 7.5'

SURFACE OWNER IMPERIAL COAL COMPANY ACREAGE 1861

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

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5290

WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND C. BAER

ADDRESS P.O. BOX 2587 ADDRESS SAME

CHARLESTON, W.Va. 25329

09/29/2023