

RECEIVED

JAN - 8 1985



1) Date: January 8, 19 85
 2) Operator's Well No. Imperial #20
 3) API Well No. 47 - 039 - 4113
 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: 1570 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 110° 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
- 12) Estimated depth of completed well, 5990 feet
- 13) Approximate trata depths: Fresh, 1000' feet; salt, 1900 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		1200'	1200'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		2400'	2400'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required
Tubing									By Rule 15.06
Liners									Perforations:
									Top Bottom

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-039-4113 Date January 9, 19 85

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: <u>5</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>01463</u>
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Margaret J. Hassel
 Administrator, Office of Oil and Gas

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

1) Date: January 8, 1985
2) Operator's
Well No. Imperial #20
3) API Well No. 47 - 039 - 4113
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 [Signature]
Its President
Address P. O. Box 2587
Charleston, WV 25329
Telephone (304) 343-4327

OIL & GAS DIV.
DEPT. OF MINES

JAN - 8 1985

RECEIVED

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 #18
 3) API Well No. 47 039
 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
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1599 / 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 9) DRILLING CONTRACTOR:
 Name Carlos Hively Name _____
 Address 223 Pinch Ridge Rd. Address _____
Elkview, WV 25071
- 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, well, Devonian Shale
 12) Estimated depth of completed well, 5990 feet
 13) Approximate trata depths: Fresh, 1120 feet; salt, 1920 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>1300'</u>	<u>1300'</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									Or As Required
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>By rule 15.05</u>
Tubing									
Liners									Perforations:
									Top Bottom

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.
 I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)
 NAME: _____
 By _____
 Its Jan 8 85 Date _____

(For execution by natural persons)

 _____ (Signature)
Imperial Oil Company
 _____ (Signature)
President
 Date: _____
 Date: _____

09/29/2023
 Surface Owner

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

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

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

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

Where to file comments and obtain additional information:

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

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

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

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

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

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

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

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

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

DEC. 28 1984



IV-9
(Rev 8-81)

DATE December 27, 1984
WELL NO. Imperial #20
API NO. 47 - 039 - 4113

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Allegheny & Western Energy Corp. DESIGNATED AGENT Roland C. Baer
Address Box 2587, Charleston, WV Address Box 2587, Charleston, WV 25329
Telephone 343-4327 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)

"SEE ATTACHED COMMENTS"

R. C. Alford
(SCD Agent)

"FIELD REVIEWED"

ACCESS ROAD	LOCATION
Structure <u>Drainage Ditch</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>Along Access Road</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2:12 to 2:13</u>
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure <u>Cross Drains</u> (C)	Structure <u>Pit</u> (3)
Spacing <u>As shown on sketch</u>	Material <u>Dug, and plastic lined</u>
Page Ref. Manual <u>2:1 to 2:6</u>	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.

RECEIVED

REVEGETATION

JAN - 8 1985

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 A E Associates, Ltd.

George F. Rollins Jr.

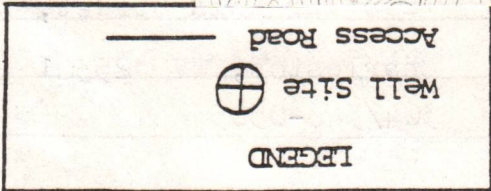
09/29/2023

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

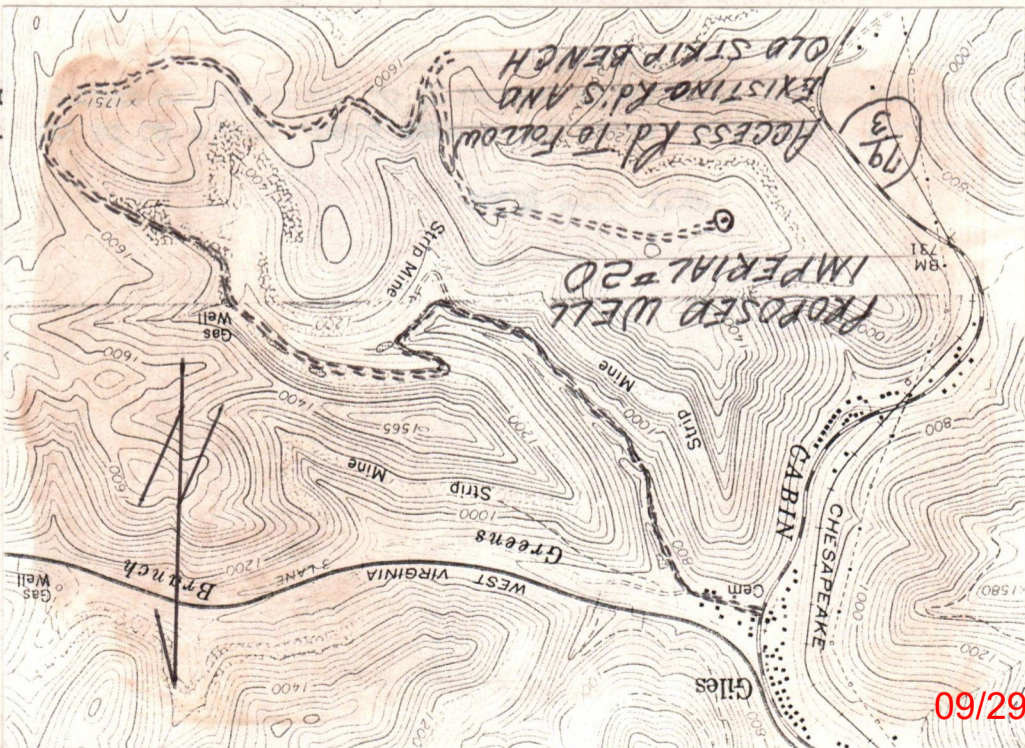
ADDRESS 1206 Virginia Street, East
Charleston, WV 25301
PHONE NO. 304/346-0505

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE WELL LOCATION ESKDALE 7.5' CEDAR GROVE 7.5' ACCESS Rd.



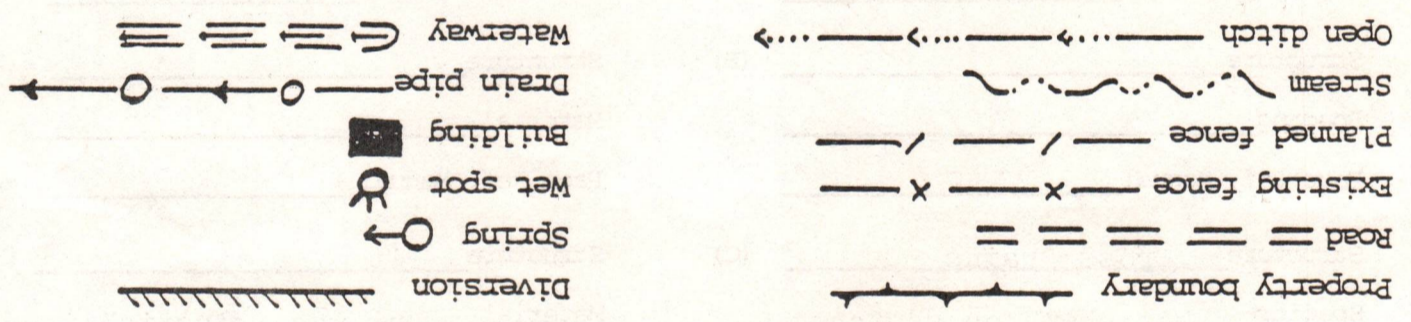
09/29/2023



nd with the first
 tructed, well site,

etch to it
 drilling pit
 part of this

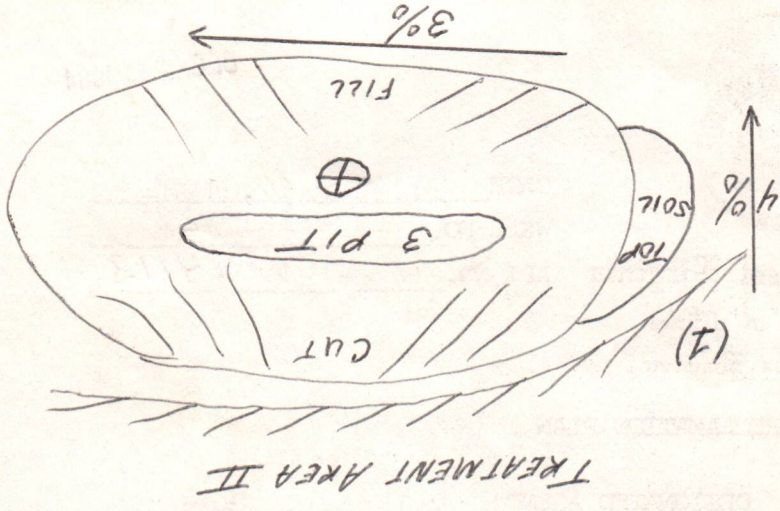
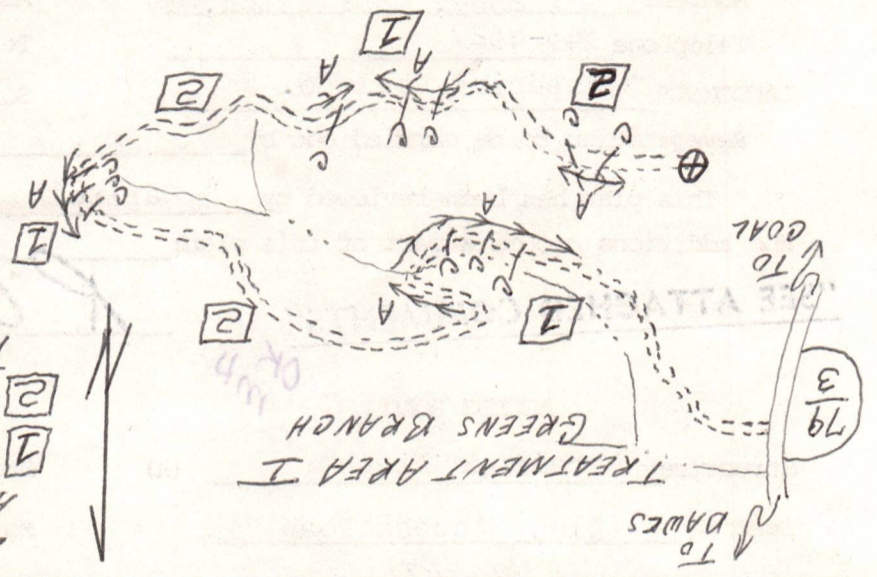
LEGEND



STAGING OF ACCESS RD. TO FOLLOW EXISTING RD'S AND OLD STRIP BENCH. RD'S TO BE UP GRABED WITH EROSION CONTROL IN MIND. ALL OUTLETS OF DRAINAGE AND DITCHES WILL BE TO STABLE AREAS. ALL BRUSH AND TIMBER WILL BE CUT PRIOR TO ANY EARTH MOVEMENT. TIMBER "AND UP" WILL BE STAGED. LOCATION TO BE CONSTRUCTED NEAR TOP OF RIDGE.

LENGTH OF ACCESS RD. TO FOLLOW EXISTING RD'S AND OLD STRIP BENCH. RD'S TO BE UP GRABED WITH EROSION CONTROL IN MIND. ALL OUTLETS OF DRAINAGE AND DITCHES WILL BE TO STABLE AREAS. ALL BRUSH AND TIMBER WILL BE CUT PRIOR TO ANY EARTH MOVEMENT. TIMBER "AND UP" WILL BE STAGED. LOCATION TO BE CONSTRUCTED NEAR TOP OF RIDGE.	PERCENTAGE	TOTAL
1	4108%	6800'
2	2105%	6700'
AS NEEDED		13500'
TOTAL		13500'

NOTE: LOCATION LOCATED IN TIMBERED OUT AREA. SCRUB TIMBER LEFT. TOP SOIL TO BE STOKED FIELD FOR RECLAMATION.





1) Date: January 8, 19 85
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 3) API Well No. 47 039
 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 /
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- 5) LOCATION: Elevation: 1599 / Watershed: Greens Branch
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- 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 / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
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Production	4 1/2"	SMLS	10.5	X		5990'	5990'	200-400 sks	Depths set Or As Required
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. 8, 19 85

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

09/29/2023
 Coal Owner

RECEIVED

MAR 28 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. Imp. # 20
Farm Imperial Coal Company
API No. 47 - 039 - 4113

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: 1570 Watershed Cabin Creek
District: Cabin Creek County Kanawha Quadrangle Eskdale

COMPANY A & W Energy Corporation
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, Charleston, WV
MINERAL RIGHTS OWNER Imperial Coal Company
ADDRESS P. O. Box 273, Charleston, WV

OIL AND GAS INSPECTOR FOR THIS WORK
C. Hively ADDRESS Elkview, WV

PERMIT ISSUED 1-9-85

DRILLING COMMENCED 2-4-85

DRILLING COMPLETED 2-10-85

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	40	40	To Surf
9 5/8	1110	1110	400 SX
8 5/8			
7	2770	2770	175 SX
5 1/2			
4 1/2	5300	5300	225 SX
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3435 feet

Depth of completed well 5300 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 1000 feet; Salt 1900 feet

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

OPEN FLOW DATA

Producing formation Coffee Shale Pay zone depth 3355 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 180 508 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 510 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 3435 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 328 Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 685 psig (surface measurement) after 24 hours shut in

K
A
Z
4
1
3

09/29/2023

(REVERSE)

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

Perforate 3342-3600 with 40 holes
Perforate 3620-5300 with 50 holes

Frac with 60,000# 20/40 sand, 1800 gal HCl, 1125MMscf N₂

Frac with 60,000# 20/40 sand, 1200 gal HCL, 1120 MMscfN₂

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	875	
Slate & Shale			875	1275	
Shale			1275	1565	
Sandstone			1565	1845	
Shale			1845	2495	
Pencil Cave			2495	2505	
Shale			2505	2515	
Little Lime			2515	2715	
Shale			2715	2783	
Big Lime			2783	2891	
Shale			2891	2895	
Biglnjun			2895	2935	
Shale			2935	3003	
Upper Weer			3003	3047	
Shale			3047	3355	
Coffee Shale			3355	3365	
Berea			3365	3435	
Devonian Shale			3435	5300 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

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. 039-4113

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 # 20</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 F.W.A. Drilling Co. Rig # 22

Remarks:
Set 1337' of 9 5/8" casing + cemented with 4905Ks. of Class A. 3% C.C. Plug down at 11:00 p.m. on 3-5-85. Today Drilling at 1556 deep + soaping hole.

3-6-85
DATE

Carlson W. Hines
DISTRICT WELL INSPECTOR

09/29/2023

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

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FEB 13 1985

INSPECTOR'S WELL REPORT

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

Permit No. 039-4113

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

Drillers' Names F.W.A. Drilling Co. Rig # 22

Remarks: set 2727' of 7" casing & cemented with 175 sks. Class A 3% C.C. Plug down at 12:15 p.m.

2-8-85
DATE

Carlson H. Hild
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. 039-4113

Oil or Gas Well _____
(KIND)

Company Allegheny Western

Address _____

Farm Imperial Coal Co.

Well No. Imperial # 20

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 1/4			Depth set
6 3/8			
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			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: T. D. hole at 5300' deep on 2-10-85. Today moving Rig off location.

2-11-85
DATE

Charles W. Hixson
DISTRICT WELL INSPECTOR

09/29/2023

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MAR 5 - 1985

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

OIL & GAS DIVISION
DEPT. OF MINES
INSPECTOR'S WELL REPORT

Permit No. 039-4113

Oil or Gas Well _____
(KIND)

Company Allegheny western

Address _____

Farm Imperial Coal Co.

Well No. Imperial # 20

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 _____

Remarks:

Did well frac on 2-27-85. Today Blowing off well frac.

3-1-85

DATE

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

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

RECEIVED
MAR 13 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4113

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 # 30</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 Petro Services Inc.

Remarks:
Service Rig Drilling out cement plug.

3-6-85
DATE

Carlos W. Hirsch
0012912023
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 039-4113 (1-09-85)
P. O. Box 2587 FARM & WELL NO Imperial Coal Co. #20
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 12/23/85

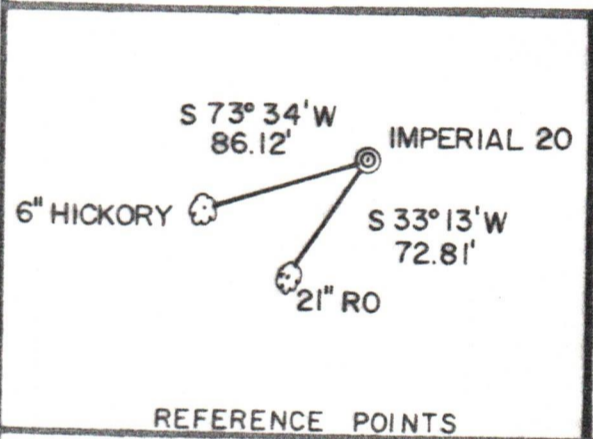
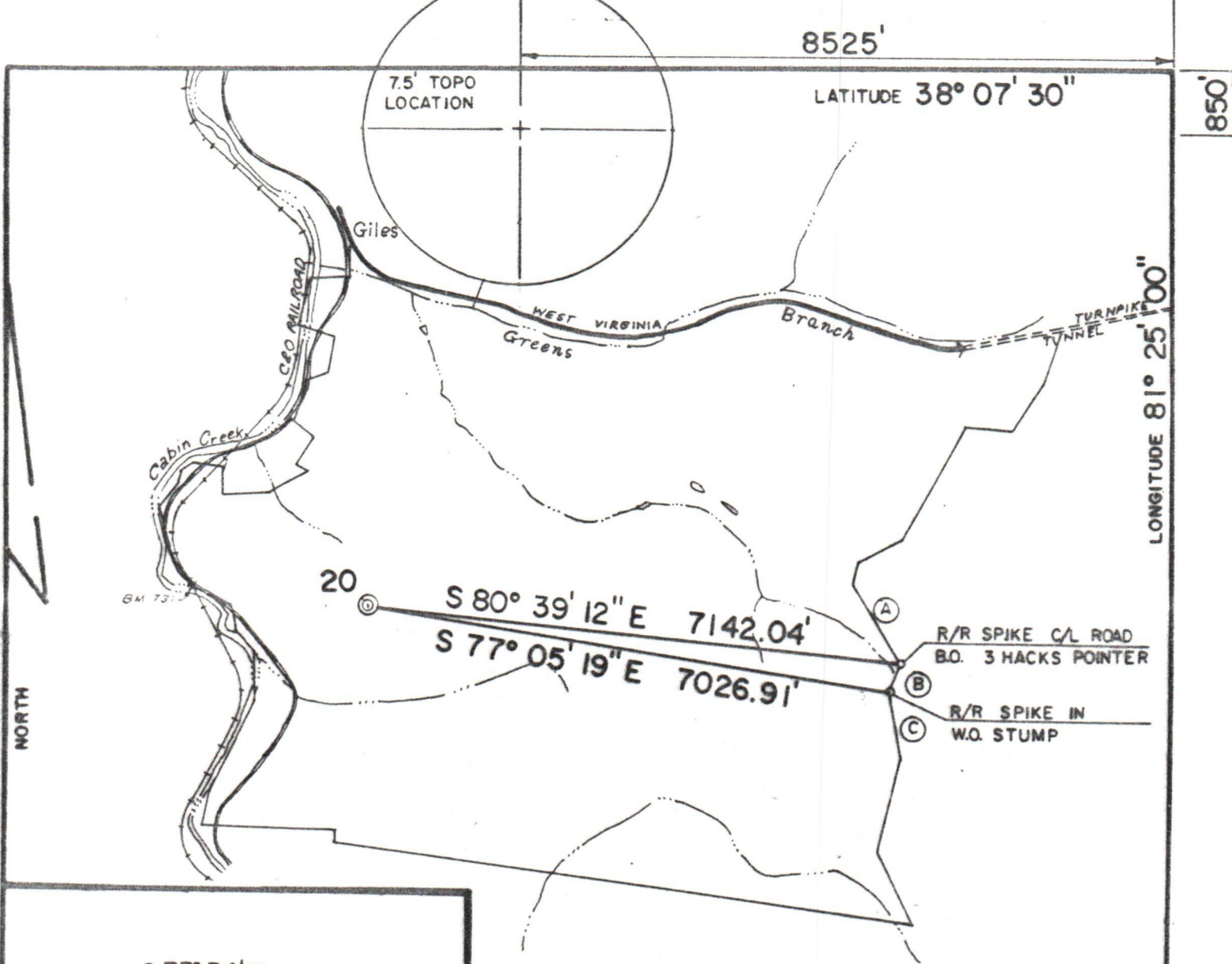
DATE Carlos Hively

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. L. v. B.
Administrator-Oil & Gas Division

January 16, 1986

DATE



- (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)



Department of Mines
 Oil & Gas Division

DATE DECEMBER 27 1984
 OPERATOR'S WELL NO. 20
 API WELL NO. _____
47-039-4113
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1570 WATER SHED CABIN CREEK
 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. _____

09/29/2023

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION 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, WV 25329