



1) Date: June 7, 19 85  
 2) Operator's Well No. Eastern #31  
 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 X /  
 B (If "Gas", Production X / Underground storage          / Deep          / Shallow X /)
- 5) LOCATION: Elevation: 1007 Watershed: Banner Hollow  
 District: Cabin Creek County: Kanawha Quadrangle: Montgomery
- 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 Road Address           
Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill X / Drill deeper          / Redrill          / Stimulate X /  
 Plug off old formation          / Perforate new formation X /  
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Injun, Weir, Devonian Shale
- 12) Estimated depth of completed well, 5290 feet  
 13) Approximate trata depths: Fresh, 440 feet; salt, 1340 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		
Conductor								Kinds
Fresh water	9 5/8"	SMLS	32	X		640'	640'	300 cts By Rule 15.05
Coal	7"	SMLS	23	X		1540'	1540'	200 cts Sizes
Intermediate								
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 cts Depths set Or As Required
Tubing								by Rule 15.01
Liners								Perforations:
								Top Bottom

5 MW MW MW 2064

Margaret J. Hesse

LINE ITEM INSTRUCTIONS

- 1) Date of Application.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves the underground reservoirs. "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.  
  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth of or greater than six thousand feet, whatever is shallower.
- 5) Self-explanatory.
- 6) Before a permit can be issued to a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State.
- 7) See Reg. 7.01 relating to Code §22-4-1k.
- 8) Self-explanatory.
- 9) Self-explanatory.
- 10) Work that will be attempted. A separate Form IV-2 shall not be required for stimulating a well where stimulating is to be part of the well work for which a permit is sought and is noted as such on the Form IV-2 field in connection therewith.
- 11) Anticipated formation for which well will be completed.
- 12) Self-explanatory.
- 13) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation.
- 14) All coal seam depths.
- 15) Proposed casing program and cementing refer to Code §§ 22-4-5, 22-4-6, 22-4-7, 22-4-8 and 22-4-8a, and also Regulations 9.01, 15.01, 15.02, 15.03, 15.04, 15.05, 25.01, 25.02, 25.03 and 25.04.

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If the permit is to be issued less than 15 days from the filing of the Application (or less than 5 days if the Application is to plug a well), the surface owner(s) of record must sign the "Voluntary Statement of No Objection" on a facsimile of the surface owner's copy of the Application.

JUN. 7 1985

"FIELD REVIEWED"



IV-9  
(Rev 8-81)

DATE June 7, 1985  
WELL NO. Eastern #31  
API NO. 047-039-4192

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 Eastern Associated Coal Corp. 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: JUN. 10 1985 (Date)  
R. C. Baer (SCD Agent)

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 _____	Page Ref. Manual <u>2:12 to 2:13</u>
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure <u>Pit</u> (3)
Spacing _____	Material <u>Dug, and plastic lined</u>
Page Ref. Manual _____	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	<u>3.0</u>	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre
	<u>(10-20-20 or equivalent)</u>	
Mulch Hay or Straw	<u>2.0</u>	Tons/acre
Seed* Ky. 31 Tall Fescue	<u>45</u>	lbs/acre
Crownvetch	<u>10</u>	lbs/acre
Rye Grass	<u>10</u>	lbs/acre

Treatment Area II

Lime	<u>3.0</u>	Tons/acre
or correct to pH	<u>6.5</u>	
Fertilizer	<u>600</u>	lbs/acre
	<u>(10-20-20 or equivalent)</u>	
Mulch Hay or Straw	<u>2.0</u>	Tons/acre
Seed* Ky. 31 Tall Fescue	<u>45</u>	lbs/acre
Crownvetch	<u>10</u>	lbs/acre
Rye Grass	<u>10</u>	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. 12/29/2023

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

ADDRESS 1206 Virginia Street, East  
Charleston, WV 25301

PHONE NO. 304/346-0505

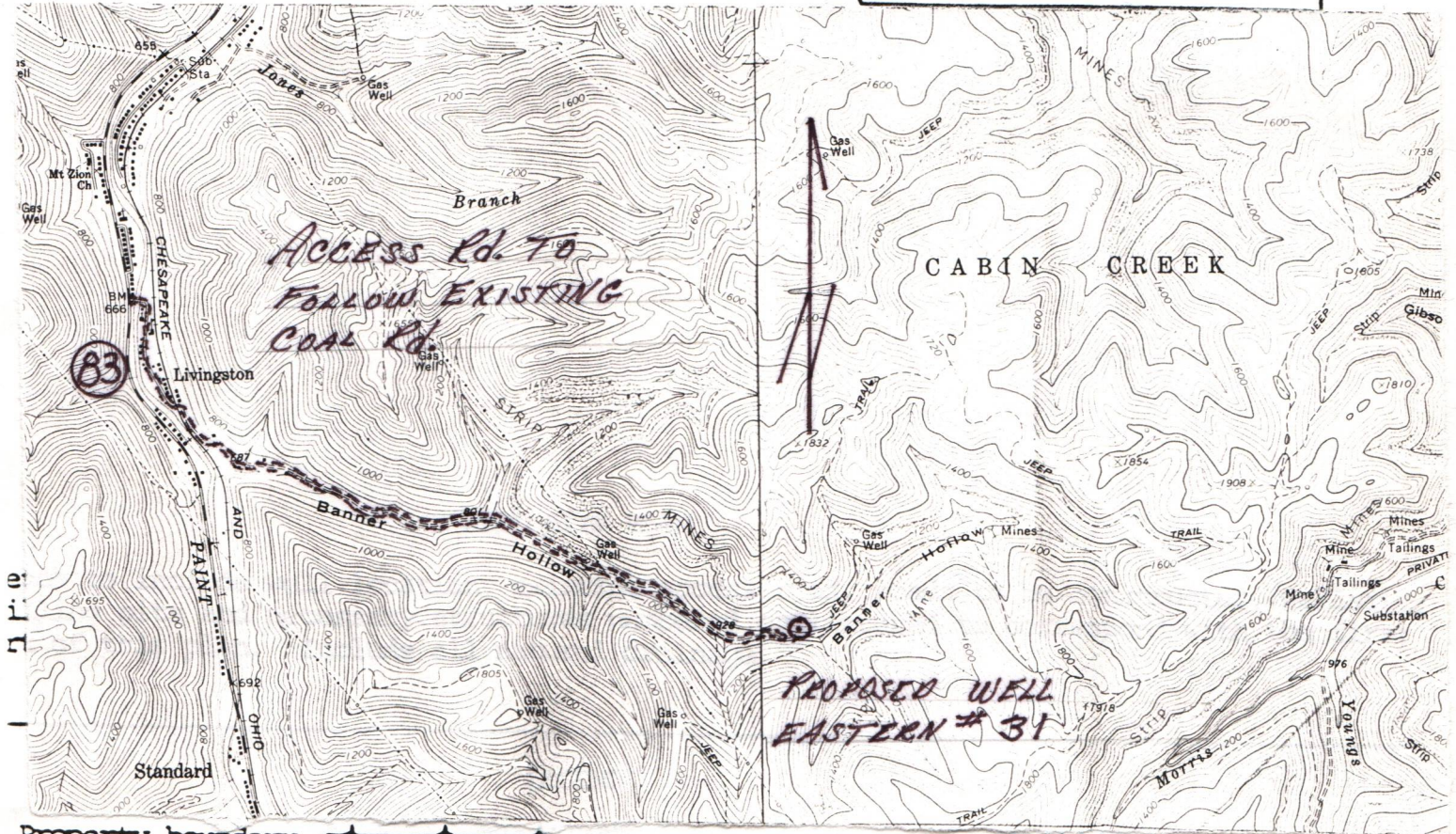
TEACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE MONTGOMERY 7.5'

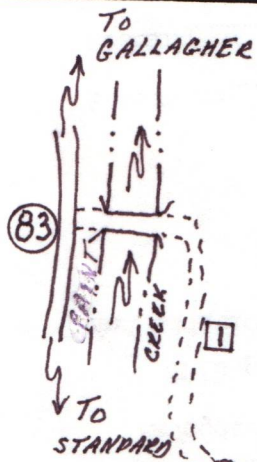
**LEGEND**

Well Site ⊕

Access Road ———



- Property boundary ————
- Road = = = = =
- Existing fence — x — x —
- Planned fence — / — / —
- Stream ~ ~ ~ ~ ~
- Open ditch — ···· —·
- Diversion ————
- Spring ○ →
- Wet spot ♀
- Building ■
- Drain pipe — ○ — ○ —
- Waterway ⇄ ⇄ ⇄



LENGTH OF ACCESS Rd.	SLOPE	SPACING OF CROSS DRAINS
1 10400	3 to 5%	
2 1000'	7 to 10%	
11400' TOTAL		

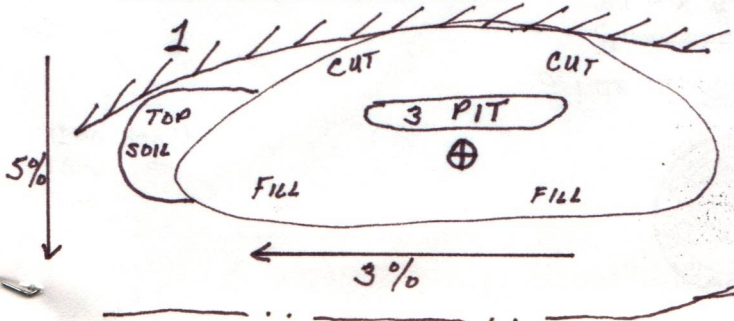
**NOTE:** Access Rd. To Follow Existing Coal Rd. with Rds to be upgraded with erosion control in mind. Rd. to have a 1 to 2% slope toward ditch line. All outlets of drainage & ditches will be to stable areas. All brush & timber to be cut prior to any earth movement.

TIMBER 6" & UP TO BE STACKED. LOCATION LOCATED @ TOE OF WOODED SLOPE. TOP SOIL TO BE STOCK-PILED FOR RECLAMATION.

TREATMENT AREA I

BANNER HOLLOW

TREATMENT AREA II



12/29/2023

RECEIVED

JUN 14 1985

1) Date: June 6, 1985  
2) Operator's Well No. Eastern #31  
3) API Well No. 47 039 - 4192  
State County Permit:

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

OIL & GAS DIVISION  
DEPT. OF MINES  
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

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

- (i) Name Eastern Associated Coal Corp.  
Address P. O. Box 70  
Beckley, WV 25802-0700
- (ii) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5 (i) COAL OPERATOR Nu East Mining, Corp.  
Address Box 57  
Cabin Creek, WV 25035

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD  
Name Eastern Associated Coal Corp.  
Address P. O. Box 70  
Beckley, WV 25802-0700

Name \_\_\_\_\_  
Address \_\_\_\_\_

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name Nu East Mining, Corp  
Address Box 57  
CabinCreek, WV 25035

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 6 day of June, 19 85

My commission expires Nov. 19, 19 89.

John J. [Signature]  
Notary Public, Wayne County,  
State of West Virginia

WELL

OPERATOR Allegheny & Western Energy Corp.

By R.H. Hess  
Its President

Address P. O. Box 2587  
Charleston, WV 25329

Telephone (304) 343-4327

12/29/2023

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>
Paint Creek Coal & Land Company	United Fuel Gas Co.	1/8	L. B. 19	Pg. 172
Columbia Gas Transmission Corp.	Allegheny & Western Energy Corporation by Farmout	Recorded	11-20-11	



1) Date: June 7, 19 85  
 2) Operator's Well No. Eastern #31  
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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: 1007 Watershed: Banner Hollow  
 District: Cabin Creek County: Kanawha Quadrangle: Montgomery
- 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 Road Address         
Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill X / Drill deeper        / Redrill        / Stimulate X /  
 Plug off old formation        / Perforate new formation X /  
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Injun, Weir, Devonian Shale  
 12) Estimated depth of completed well, 5290 feet  
 13) Approximate trata depths: Fresh, 440 feet; salt, 1340 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
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Coal	7"	SMLS	23	X		1540'	1540'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 cts	Depths set Or As Required by Rule 15.01
Tubing									
Liners									Perforations: Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator        / owner X / lessee X / 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.

Nu East Mining Corp  
Eastern Associated Coal Corp  
 By Michael A Eddy Jr  
 Its Manager et Proprietor

Date: June 14, 19 85

12/29/2023  
 Coal Owner



1) Date: June 7, 19 85  
 2) Operator's Well No. Eastern #31  
 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**

4192

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X /  
 B (If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 1007 Watershed: Banner Fallow  
 District: Cabin Creek County: Kanawha Quadrangle: Montgomery
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 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, 5290 feet  
 13) Approximate strata depths: Fresh, 440 feet; salt, 1340 feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No X /
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CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
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Coal	7"	SMLS	23	X		1540'	1540'	200 cts	Sizes
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 cts	Depths set <u>Or As Required</u>
Tubing									<u>by Rule 15.01</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: Eastern Associated Coal Corp \_\_\_\_\_ Date: \_\_\_\_\_  
 By Michael A. Eady Jr \_\_\_\_\_ (Signature)  
 Its 12th day of August Date June 14 1985 \_\_\_\_\_ (Signature)

**12/29/2023**  
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-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date August 29, 1985  
Operator's  
Well No. Eastern # 31  
Farm Eastern Associated Coal  
API No. 47 -039 - 4192

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: 1007 Watershed Banner Hollow  
District: Cabin Creek County Kanawha Quadrangle Cedar Grove

COMPANY Allegheny & Western Energy Corporation

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

DESIGNATED AGENT R. C. Baer, Jr.

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

SURFACE OWNER Eastern Associated Coal

ADDRESS P. O. Box 70, Beckley, WV 25801

MINERAL RIGHTS OWNER Eastern Associated Coal

ADDRESS P. O. Box 70, Beckley, WV 25801

OIL AND GAS INSPECTOR FOR THIS WORK Carlos Hively  
ADDRESS Elkview, WV 25071

PERMIT ISSUED 6-18-85

DRILLING COMMENCED 6-26-85

DRILLING COMPLETED 7-2-85

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- <del>16</del> "	40	40	To Surf
9 5/8	672	672	300 SX
8 5/8			
7	1929	1929	150 SX
5 1/2			
4 1/2	4190	4190	255 SX
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2676 feet

Depth of completed well 4250 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 440 feet; Salt \_\_\_\_\_ feet

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

OPEN FLOW DATA

Producing formation Big Lime Weir Pay zone depth 1883 feet  
2234 feet

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

Final open flow 305 / 210 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

(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 2428/29/2023 feet

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

Final open flow 1,500 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure 620 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)

KAN 4192

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

Perforate 2038-2044 with 6 holes  
 Perforate 2064-2127 with 10 holes  
 Perforate 2473-2964 with 30 holes  
 Perforate 2868-2882 with 25 holes  
 Perforate 3025-4119 with 47 holes

Acidize with 10,000 gal. gelled acid

Frac with 120,000# 20/40 sand, 2,000 gal 15% HCl & 1,400 MscfN<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandstone & Shale			0	935	
Sandstone			935	1056	
Shale & Sand			1056	1086	
Salt Sand			1086	1414	
Shale, Sand & Lime			1414	1513	
Limestone			1513	1547	
Shale & Sand			1547	1793	
Little Lime			1793	1843	
Slate & Lime			1843	1883	
Big Lime			1883	2145	
Big Injun			2145	1282	
Shale			2182	2234	
Weir			2234	2346	
Shale			2346	2604	
Coffee Shale			2604	2621	
Berea Grit			2621	2676	
Sandy Siltstone & Shale			2676	2878	
Grey Silty Shale			2878	4202	TD 4202' KB

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation

Well Operator

By:

*R. J. Hess*

12/29/2023

Date:

August 29, 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 ~~encountered~~, encountered in the drilling of a well."

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

RECEIVED  
JUL 8 - 1985

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

Permit No. 039-4192

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Allegheny + Western</u> Address _____ Farm <u>Eastern Assoc. Coal Corp</u> Well No. <u>Eastern #31</u> District <u>Cabin Creek</u> County <u>Kanawha</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer _____
	16			
	13			Size of _____
	10			
	8 3/4			Depth set _____
	6 3/4			
	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 E.W.A Drilling Co. Rig #23

Remarks: Set 1919' of 7" casing + cemented with 150 SKS. Class A-2% c.c. 6-30-85. Today drilling at 2965' + soaping hole.

7-1-85

DATE

Carlos W. Hain  
DISTRICT WELL INSPECTOR

12/29/2023

Form 26  
2/16/82

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

INSPECTOR'S PLUGGING REPORT

RECEIVED  
JUL 8 - 1982  
OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. \_\_\_\_\_ Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

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

Drillers' Names \_\_\_\_\_

Remarks:

\_\_\_\_\_ I hereby certify I visited the above well on this date.

DATE

\_\_\_\_\_ 12/29/2023  
DISTRICT WELL INSPECTOR

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

INSPECTOR'S WELL REPORT

Permit No. 039-4192

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Allegheny + Western</u> Address _____ Farm <u>Eastern Assoc. Coal Corp</u> Well No. <u>Eastern #31</u> District <u>Cabin Creek</u> County <u>Kanawha</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer _____
	16			
	13			Size of _____
	10			
	8 1/4			Depth set _____
	6 1/4			
	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 F.W.A. Drilling Co. Rig #23

Remarks: Moved rig on location 6-26-85. Set 690' of 9 5/8" casing + cemented with 300 SKs. Class A-3% C.C. 6-27-85. today drilling at 1066' and soaping hole.

6-28-85  
DATE

Carlos W. Hively  
DISTRICT WELL INSPECTOR

7-3-85  
DATE

Carlos W. Hively  
DISTRICT WELL INSPECTOR

12/29/2023

Form 26  
2/16/82

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

Form 26  
RECEIVED

Form 26  
2/16/82

RECEIVED  
JUL 12 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			Packer	Location			
	PLUGS USED AND DEPTH PLACED				BRIDGES	CASING AND TUBING		
	CEMENT-THICKNESS	WOOD-SIZE	LEAD			CONSTRUCTION-LOCATION	RECOVERED	SIZE

Drillers' Names \_\_\_\_\_

Remarks:

12/29/2023

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

DISTRICT WELL INSPECTOR



RECEIVED  
DEPARTMENT OF ENERGY  
OIL AND GAS

State of West Virginia  
Department of Energy  
Oil and Gas Division  
Charleston 25311

JUN 10 1986

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
September 18, 1985

6-18-85

COMPANY Allegheny & western Energy Corp. PERMIT NO 039-4192  
P. O. Box 2587 FARM & WELL NO Eastern Assoc. Coal #31  
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 Strength		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		

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

SIGNED Carlton Hinchey

DATE 6-2-86

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. ...  
Director, Division of Oil & Gas  
June 12, 1986  
DATE

TMS/nw

Received by: <u>...</u>	<u>September 11, 1985</u> Date Application is Completed	<u>304-343-4321</u> Phone Number
-------------------------	--	-------------------------------------

12/29/2023



12/29/2023

02676-73

RM IV-48WC  
2-84)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

JAN 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

te: 9/11, 1985 1100

licant's Name: Allegheny & Western Energy

dress: P.O. Box 2587  
Charleston, WV 25329

s Purchaser Contract No. N/A KAN-1

te of Contract N/A 6-21-84  
(Month, day and year)

st Purchaser: Mountaineer Gas Company 640

ress: P.O. Box 3152  
(Street or P.O. Box)  
Charleston, WV 25332  
(City) (State) (Zip Code)

RC Seller Code \_\_\_\_\_

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

851226-1030-039-4192

Use Above File Number on all  
Communications Relating to This Well

Designated Agent: Roland C. Baer, Jr.

Address: P.O. Box 2587  
Charleston, WV 25329

FERC Buyer Code \_\_\_\_\_

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

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

Signature: *R H Hess*

Address: P.O. Box 2587  
(Street or P.O. Box)  
Charleston, WV 25329  
(City) (State) (Zip Code)

Telephone: ( )  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

A SECTION/SUBSECTION

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

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

- New Onshore Production Well
- 103 New Onshore Production Well

- High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressed Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

12/29/2023

RECEIVED

DEC 26 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

Date September 11, 1985

Operator's Well No. Eastern #31

API Well No. 47 - 039 - 4192  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

DESIGNATED AGENT Roland C. Baer, Jr.  
ADDRESS P.O. Box 2587  
Charleston, WV 25329

WELL OPERATOR Allegheny & Western  
ADDRESS P.O. Box 2587  
Charleston, WV 25329

LOCATION: Elevation 1007  
Watershed Banner Hollow  
Dist. Cabin Creek County Kanawha Quad Cedar Grove Estate  
Gas Purchase Contract No. KAN-1  
Meter Chart Code N/A  
Date of Contract 6-21-84

GAS PURCHASER Mountaineer Gas  
ADDRESS P.O. Box 3152  
Charleston, WV 25301

\* \* \* \* \*

Date surface drilling was begun: JUNE 26, 1985

Indicate the bottom hole pressure of the well and explain how this was calculated:

From Department of Interior Monograph 7

BHP = Absolute pressure plus pressure from gas column  
BHP = ( 635 ) + (Specific Gravity X Depth)  
BHP = ( 635 ) + 54 )  
BHP = 689

AFFIDAVIT

I, R H Hess, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

R H Hess

STATE OF WEST VIRGINIA,  
COUNTY OF Kanawha, TO WIT:

I, Deborah J. Auxier, 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 11 day of September, 19 85, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 11 day of September, 19 85. My term of office expires on the 29 day of May, 19 90.

[NOTARIAL SEAL]

Deborah J. Auxier  
Notary Public

12/29/2023

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

**RECEIVED**  
DEC 26 1985

1.0 API well number: (If not assigned leave blank. 14 digits.) 47 - 039 - 4192 -

2.0 Type of determination being sought: (Use the codes found on the front of this form.)  
Section of NGPA: 107 Category Code: 3

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

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available leave blank.)  
Name: Allegheny & Western Energy Corporation  
P.O. Box 2587  
Street: \_\_\_\_\_  
City: Charleston State: WV Zip Code: 25329

5.0 Location of this well: (Complete (a) or (b).)  
(a) For onshore wells: (35 letters maximum for field name.)  
Field Name: Cabin Creek District  
County: Kanawha State: WV  
(b) For OCS wells:  
Area Name: \_\_\_\_\_ Block identifier: \_\_\_\_\_  
Date of Lease: NA  
Mo. Day Yr. OCS Lease Number: NA

(c) Name and identification number of this well: (35 letters and digits maximum.)  
EASTERN #31

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) \_\_\_\_\_

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available leave blank.)  
Name: Mountaineer Gas Company Code: NA  
(b) Date of the contract: \_\_\_\_\_  
Mo. Day Yr. Buyer Code: \_\_\_\_\_

(c) Estimated total annual production from the well: \_\_\_\_\_  
Bbls/Day Estimated \_\_\_\_\_

	(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 lawful rate: (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 Juris. Agency: DEC 26 1985  
Date Received by PERC: \_\_\_\_\_

Name: R. H. Hess Title: President  
Signature: [Signature]  
Date Application is Completed: September 11, 1985  
Phone Number: 304-343-4327

12/29/2023

02676-73

1V-48WC  
4)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

JAN 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

9/11, 1985

1100

NEW AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

851226-1073-039-4192

Use Above File Number on all  
Communications Relating to This Well

licant's Name: Allegheny & Western Energy Corp.

SS: P.O. Box 2587  
Charleston, WV 25329

urchaser Contract No. KDN-1

of Contract 10-21-84  
(Month, day and year)

Purchaser: Mountaineer Gas Company 640

Designated Agent: Roland C. Baer, Jr.

SS: 414 Summers Street  
(Street or P.O. Box)  
Charleston, WV 25301  
(City) (State) (Zip Code)

Address: P.O. Box 2587  
Charleston, WV 25329

Seller Code \_\_\_\_\_

FERC Buyer Code \_\_\_\_\_

AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL  
DRESSED:

Name: Robert H. Hess (Print) President (Title)

Signature: [Handwritten Signature]

Address: P.O. Box 2587  
(Street or P.O. Box)  
Charleston, WV 25329  
(City) (State) (Zip Code)

Telephone: (304) 343-4327  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

SECTION/SUBSECTION

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

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

- New Onshore Production Well
- 103 New Onshore Production Well

- High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

12/29/2023

RECEIVED  
DEC 26 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES OIL AND GAS DIVISION

Date September 11, 1985

Operator's  
Well No. Eastern #31

API Well No.

47 - 039 - 4192  
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 1007

WELL OPERATOR Allegheny & Western Energy Watershed Banner Hollow

ADDRESS P.O. Box 2587 Dist. Cabin Crk County Kanawha Quad. Cedar Grove

Charleston, West Virginia Gas Purchase Contract No. KAN-1

GAS PURCHASER Mountaineer Gas Company Meter Chart Code N/A

ADDRESS 414 Summers Street Date of Contract 6-21-84

Charleston, West Virginia

\* \* \* \* \*

Date surface drilling began: 6/26/85

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 = ( 620 + 15 ) + Specific Gravity X Depth  
BHP = ( 635 + 54 )  
BHP = 689

AFFIDAVIT

I, R. H. Hess, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(11)(A) has been filed, or as indicated by the report described in subparagraph (3)(11)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

R. H. Hess

STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, Deborah J Kuhl Auxier, a Notary Public in and for the state and county aforesaid, do certify that R. H. Hess, whose name is signed to the writing above, bearing date the 11 day of September, 1985, has acknowledged the same before me, in my county aforesaid.

12/29/2023

Given under my hand and official seal this 11 day of September, 1985.  
My term of office expires on the 29 day of May, 1990.

(NOTARIAL SEAL)

\_\_\_\_\_  
Notary Public

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.: 47-039-4192 Well Name: Eastern #31

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 = 160 \* API Units
2. Remarks: .

*Gamma Ray Scale = 0 - 200 API Units*

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

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

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

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
<u>2676'</u>	<u>4196'</u>		

Total Devonian Interval 1520'

Total Less Than 0.7 (Shale Base)

18'

% Less Than 0.7 (Shale Base Line) =  $\frac{0.0118}{1} \times 100 = \underline{1.18} \%$

12/29/2023

\*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.

37-6-17-85

11,400'

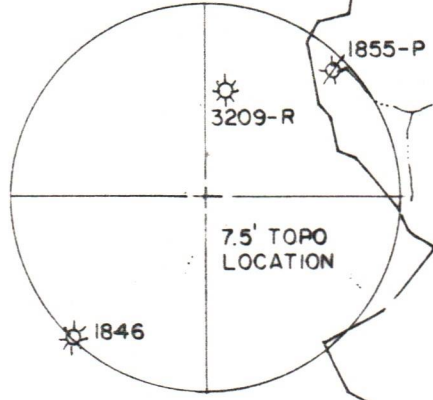
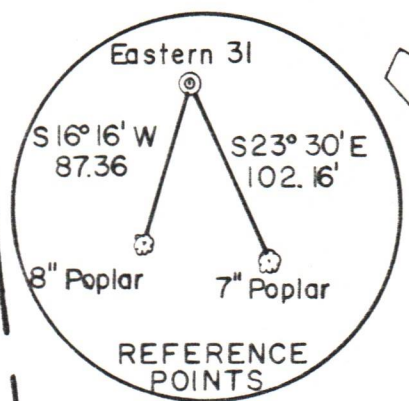
COAL COORDINATES

N 34493.22  
E 64259.88

LATITUDE 38° 10' 00"

LONGITUDE 81° 20' 00"

8,350'



NORTH



S 31° 12' E 1193.5'  
S 25° 36' W 434'  
S 09° 36' E 896.3'

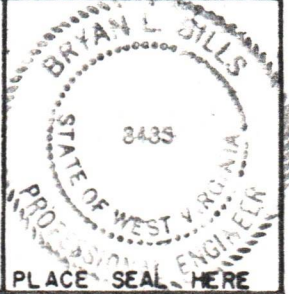
S 60° 02' 40" W  
S 59° 13' 00" W

RR SPIKE IN  
E OF ROAD  
RR SPIKE IN  
W.Q. STUMP

16,389.38'  
16,741.76'

FILE NO. 10-002  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 4000'  
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) Bryan L. J. Bills  
R. P. E. 8485 L. L. S. \_\_\_\_\_



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE JUNE 6 19 85  
OPERATOR'S WELL NO. 31  
API WELL NO. 47-039-4192  
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 1007 WATER SHED BANNER HOLLOW  
DISTRICT CABIN CREEK COUNTY KANAWHA  
QUADRANGLE MONTGOMERY 7.5'  
SURFACE OWNER Eastern Associated Coal Corporation ACREAGE 21,238  
OIL & GAS ROYALTY OWNER Eastern Associated Coal Corporation LEASE ACREAGE 2230  
LEASE NO. \_\_\_\_\_

12/29/2023

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

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 5290'  
WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND C. BAER  
ADDRESS PO, BOX 2587 ADDRESS SAME  
CHARLESTON, WV 25329



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

RECEIVED

JUL 15 1985

OIL & GAS DIVISION

DEPT. OF MINES  
Oil or Gas Well (KIND)

INSPECTOR'S WELL REPORT

Permit No. D39-4192

Company <u>Allegheny &amp; Western</u> Address _____ Farm <u>Eastern Assoc. Coal Corp</u> Well No. <u>Eastern #31</u> District <u>Cabin Creek</u> County <u>Kanawha</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
16				Size of _____
13				Depth set _____
10				Perf. top _____
8 1/4				Perf. bottom _____
6 1/2				Perf. top _____
5 3/16				Perf. bottom _____
3				
2				
Liners Used				

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_

NAME OF SERVICE COMPANY \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: Doing well Frac. + Dowell doing Frac.

7-8-85  
DATE

Carlos W. Haisley  
DISTRICT INSPECTOR

RECEIVED

JUL 1 2 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-headers: 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

12/29/2023

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

RECEIVED

JUL 8 - 1985

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-4192

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Allegheny + Western

Address \_\_\_\_\_

Farm Eastern Assoc. Coal Corp

Well No. Eastern #31

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 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_

NAME OF SERVICE COMPANY \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: T.O hole at 4200' + moved rig off location. Today nothing being done.

7-3-85

DATE

Charles W. Hinds  
DISTRICT WELL INSPECTOR

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

RECEIVED  
JUL 3 1982  
OIL & GAS DIVISION  
DEPT. OF MINES

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 12/29/2023