



1) Date: July 25, 19 85
2) Operator's Well No. Eastern #43-R
3) API Well No. 47 039-4215
State County Permit

RECEIVED
JUL 20 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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: 1359 Watershed: Banner Hollow
District: Cabin Creek 2 County: Kanawha Quadrangle: Cedar Grove 284
- 6) WELL OPERATOR A & W Energy Corp. CODE: 1100 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 Road
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, 5290 feet
13) Approximate trata depths: Fresh, 790 feet; salt, 1690 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		950'	950'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		1850'	1850'	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

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-039-4215 Date July 31 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 July 31, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u> </u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>2339</u>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <u> </u>
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NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

12/29/2023 File



OFFICE USE ONLY

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

1) WELL TYPE: A Oil _____ B Oil/Gas Production _____ C Gas _____ D Underground storage _____ E Shallow _____ F Other _____

2) LOCATION: Elevation _____ Well No. _____ County _____

3) WELL OPERATOR: Name _____ Address _____

4) DESIGNATED AGENT: Name _____ Address _____

5) DRILLING CONTRACTOR: Name _____ Address _____

6) OIL & GAS INSPECTOR TO BE NOTIFIED: Name _____ Address _____

7) PROPOSED WELL WORK: Plug off old formation _____ Reform new formation _____ Drill deeper _____ Redrill _____ Stimulate _____ Other physical change in well (specify) _____

8) GEOLOGICAL TARGET FORMATION: _____

9) Estimated depth of completed well: _____ feet

10) Approximate true depth: _____ feet

11) Approximate casing depth: _____ feet

12) Approximate casing depth: _____ feet

13) Is casing cemented in the hole? Yes _____ No _____

Casing or Tubing Type	Casing or Tubing Size	Casing or Tubing Weight	Application		Footage Interval		Cementing		Packers
			Start	End	Start	End	Start	End	

OFFICE USE ONLY

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

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason:	Inspected	By	Date	Remarks

12/29/2023



JUL 25 1985

DATE July 25, 1985
WELL NO. Eastern #43-R
API NO. 047 - 039 - 4215

State of West Virginia
Department of ENERGY
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 Capital
Revegetation to be carried out by Roland C. Baer (Agent)

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

"SEE ATTACHED COMMENTS"
"FIELD REVIEWED"

7-26-1985
(Date)
R. C. Alford
(SCD Agent)

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

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 Tons/acre

Seed* Ky. 31 Tall Fescue lbs/acre
Crownvetch lbs/acre
Rye Grass 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 Tons/acre

Seed* Ky. 31 Tall Fescue lbs/acre
Crownvetch lbs/acre
Rye Grass lbs/acre

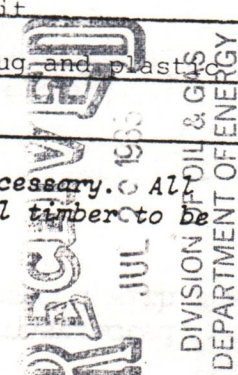
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY

George F. Collins Jr.
A & Associates, Ltd.

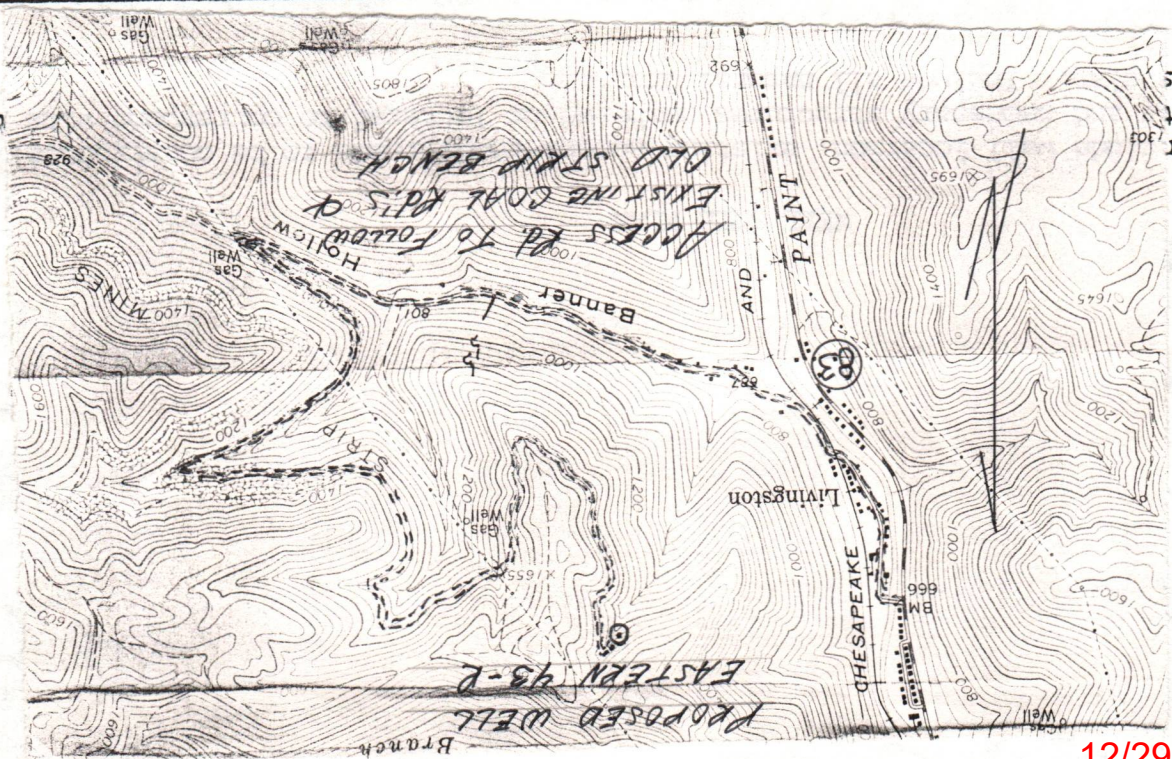
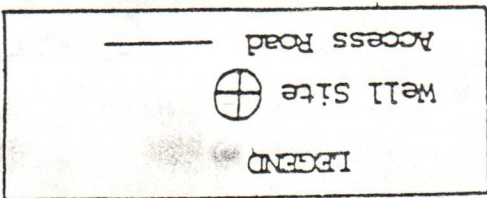
NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

ADDRESS 1206 Virginia East
Charleston, WV 25301
PHONE NO. (304) 346-0505



ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE CEDAR GROVE 7.51

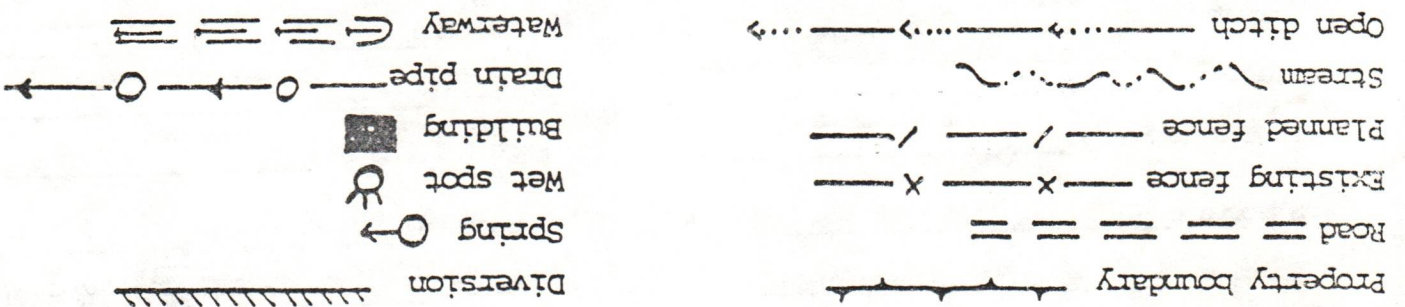
12/29/2023



wellsite
the first

etch to it
drilling pit
part of this

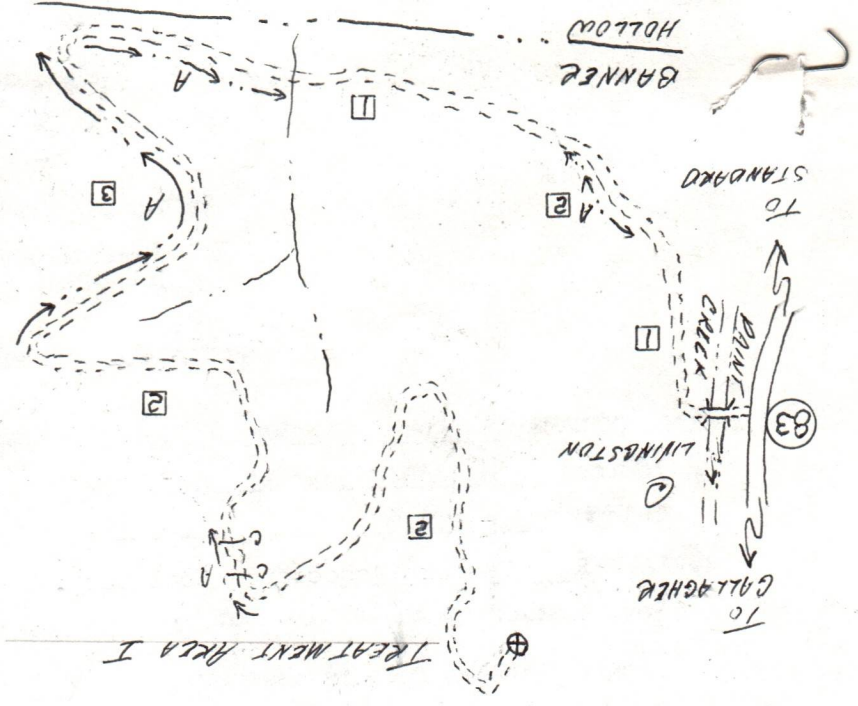
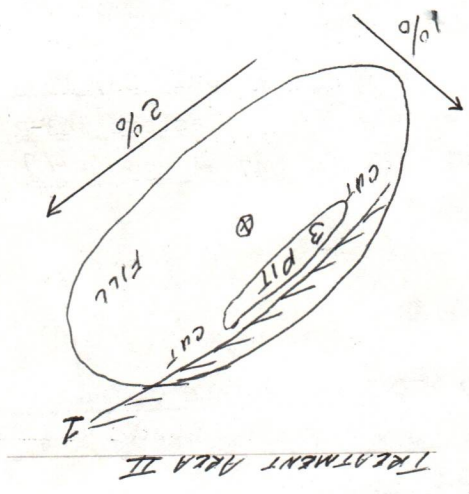
LEGEND



NOTE: Access Rd. To Follow Existing Coal Rd. & Old Strip Bench. Rds. To Be Upgraded With Erosion Control In Mind. Rds. To Be Sloped 1 To 2% 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 Trimmed & Stacked.

LOCATION SPOTTED ON OLD STRIP BENCH WITH SMALL GROWTH. TOP SOIL TO BE STOCK-PILED FOR RECLAMATION.

SPRING OF CROSS DRAINS AS NEEDED	LENGTH OF	TOTAL
1	8000'	1 To 3%
2	9150'	4 To 6%
3	4000'	8 To 12%
		85'
		95'
		21,150'



1) Date: July 25, 1985, 1985
Operator's
2) Well No. Eastern #43-R
3) API Well No. 47 - 039 - 4215
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

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

5 (i) COAL OPERATOR Nueast Mining, Corp.
Address Box 57

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

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

(ii) Name _____
Address _____

Name _____
Address _____

(iii) Name _____
Address _____

5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name Nueast Mining, Corp.
Address Box 57
Cabin Creek, 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 WW-2(B) 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 WW-6, and
- (3) The Construction and Reclamation Plan on Form WW-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 WW-2(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B 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 Director of the Division of Oil and Gas, with respect to a well at the location described on attached Application and depicted on attached Form WW-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 Director of the Division of Oil and Gas.

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 22B-1-8(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 WW-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 25th day of July, 1985,
My commission expires Sept 21, 1993.

George A. Hollins
Notary Public, Kanawha 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

RECEIVED
JUL 26 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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 Division 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 §22B-1-9(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 §22B-1-36.
- 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 §22B-1-6 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 §22B-1-2C and the reclamation required by Code §22B-1-30 and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code §22B-1-2(c) and 22B-1-29, and (v) if applicable, the consent required by Code §22B-1-21 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 § § 22B-1-9, 22-B-1-13 and 22B-1-14.

INFORMATION SUPPLIED UNDER CODE §22B-1-8(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 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		Recorded 11-20-11
	bu Farmout		12/29/2023



1) Date: July 25, 1985
 2) Operator's Well No. Eastern #43-R
 3) API Well No. 47 039
 State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, 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: 1359 Watershed: Banner Hollow
 District: Cabin Creek County: Kanawha Quadrangle: Cedar Grove
- 6) WELL OPERATOR A & W Energy Corp. CODE: _____ 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, 790 feet; salt, 1690 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		950'	950'	300 cts	By Rule 15.05
Coal	7"	SMLS	23	X		1850'	1850'	200 cts	Size
Intermediate									
Production	4 1/2"	SMLS	10.5	X		5290'	5290'	200-400 cts	Depths set <u>Or As Required</u>
Tubing									By Rule 15.01
Liners									Perforations:
									Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code 22B-1-15,16, or 17 must be filed with the Department of Energy 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 22B-1-36 if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator X / owner X / 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.

Eastern Associated Coal Corp.

Date: 7-29, 19 85

By D. N. Koster

Its Justus 12/29/2023



1) Date: July 25, 19 85
 2) Operator's Well No. Eastern #43-R
 3) API Well No. 47 039
 State County Permit

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

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 Address P. O. Box 2507 Address P. O. Box 2507
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
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Conductor									Kinds
Fresh water	5/8"	SMYLS	32	X		950'	950'	300 cts	By Rule 15.05
Coal	7"	SMYLS	23	X		1850'	1850'	200 cts	Sizes
Intermediate									
Production	1 1/2"	SMYLS	10.5	X		5290'	5290'	200-400 cts	Depths set 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, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form WW-2(A), (2) an Application for a Well Work Permit on Form WW-2(B), (3) a survey plat on Form WW-6, and (4) a Construction and Reclamation Plan on Form WW-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: EACC

By D. N. Koster

Its Vice Pres Date 7/29/85

(Signature) _____ Date _____

(Signature) _____ 12/29/2023

Date _____

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 22B, Article 1 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 Director of the Division of Oil and Gas in the West Virginia Department of Energy immediately.

NOTE : YOU ARE NOT REQUIRED TO FILE ANY COMMENT AT ALL.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION :

Director, Division of Oil and Gas
West Virginia Department of Energy
1615 Washington Street, East
Charleston, West Virginia 25311-2192
(304) - 348 - 3500

Who may file comments? If you wish to file comments, you must be an owner of record of (1) and 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 over 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 Director'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 Director's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Director 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 Director.

List of Water Testing Laboratories. The Director 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 Director's office or an Oil and Gas Inspector to obtain a copy of the list.

2023
12/29/2023

SITE REGISTRATION APPLICATION FORM
STATE OF WEST VIRGINIA/NPDES GENERAL PERMIT FOR OIL AND GAS
DRILLING PIT WASTE DISCHARGE

1. Company Name Allegheny & Western Energy Corporation
2. Mailing Address P. O. Box 2587 Charleston, West Virginia 25329
street city state zip
3. Telephone (304) 343-4327 4. Well Name Eastern #43-R
5. Latitude 38° 10' 00" Longitude 81° 22' 30"
6. NPDES # WV0073343 7. Dept. Oil & Gas Permit NO. 47-039-4215
8. County Kanawha 9. Nearest Town Gallagher
10. Nearest Stream Banner Hollow 11. Tributary of Paint Creek
12. Will Discharge be Contracted Out? yes no
13. If Yes, Proposed Contractor A E Associates, Ltd.
Address P. O. Box 607 Charleston, West Virginia 25322
Telephone (304) 346-0505
14. Proposed Disposal Method: UIC _____ Land application
Off Site Disposal _____ Reuse _____ Centralized Treatment _____
Thermal Evaporation _____ Other _____
15. Attach to this application a topographic map (a duplicate of the one submitted to the Office of Oil and Gas) showing the outline of the facility, location of wells, springs, rivers and other surface water bodies, and drinking water wells known to the applicant in the area of the lease that may be impacted by any land application.

RECEIVED
JUL 2 1998
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Nothing in the general permit shall be deemed in any way to create new, or enlarge existing, rights of riparian owners or others. Neither does anything in the general permit create new, or enlarge existing, obligations or duties of an operator pursuant to the requirements of W. Va. Code S22-4-1 et seq. The issuance of the general permit does not convey any property rights of any sort. Nor shall the issuance of the general permit give rise to any presumptions of law or findings of fact inuring to or for the benefit of persons other than the State of West Virginia.

By completing and submitting this application, I have reviewed, understand, and agree to the terms and conditions of the general permit issued on July 10, 1985. I understand that provisions of the permit are enforceable by law. Violations of any term and condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

COMPANY OFFICIAL SIGNATURE

R. J. Hess

DATE 7-26-85

Please attached \$50.00 permit application fee required by Series III, Section 7, of the West Virginia Administrative regulations of the State Water Resources Board.

All spills or accidental discharges are required to be reported immediately to the Emergency Response Spill Alert System toll free telephone number 1-800-642-3074.

LANDOWNER ADMINISTRATIVE REVIEW RIGHTS

The conditions in the general NPDES permit for pit waste treatment and discharge have been developed so that they are applicable to general conditions found throughout the state. There may be particular sets of circumstances at specific sites that require modification of established procedures. You as a land owner, if you feel the site on your property requires such consideration for water quality/general permit compliance related matters, may request an administrative review of that site. If there are valid water quality concerns, the Division of Water Resources will address them by either not allowing the pit construction and subsequent discharge, or by altering the standard operating procedures to deal with the particular unique nature of this site. Such requests should be forwarded in writing to:

Chief, Division of Water Resources
Department of Natural Resources
1201 Greenbrier St.
Charleston, West Virginia 25311.

To ensure prompt review of your site it is suggested that you also call the Field Operations Branch (348-2745) and verbally make the request.

12/29/2023

CAPITOL SOIL CONSERVATION DISTRICT
WESTMORELAND PLACE
400 ALLEN DRIVE
CHARLESTON, WEST VIRGINIA 25302

DATE: July 26, 1985

WELL SITE: Eastern # 43 R
Allegheny & Western Energy Corp.

QUADRANGLE: Cedar Grove

LANDOWNER: Eastern Associated Coal

PLAN PREPARED BY: George F. Rollins Jr., A E Associates, Ltd.

PLAN RECEIVED BY CAPITOL SCD ON: July 25, 1985, delivered by Jr. Rollins

PLAN REVIEWED BY: Linda M. Cable, District Manager, Capitol SCD, on
July 26, 1985.

SITE FIELD REVIEWED YES DATE 7-26-85 NO

Linda M. Cable & George F. Rollins Jr., FIELD REVIEW

RECLAMATION PLAN COMMENTS:

(1) No comments!

R. C. Alford

R. C. ALFORD, CHAIRMAN
BOARD OF SUPERVISORS

NOTE: ALL COMMENTS SHOULD BE STUDIED
SO THEY WILL NOT BE REPEATED
ON FUTURE PLANS!

cc: Office of Oil & Gas, WV Dept. of Energy

12/29/2023

25

RECEIVED
DEC - 6 1985
DIVISION OF OIL & GAS
DEPT. OF ENERGY



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 31, 1985
Operator's # 43-R
Well No Eastern Assoc. Coal
Farm Eastern Assoc. Coal
API No. 47-039-4215

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: 1359 Watershed Banner Hollow
District: Cabin Crk. County Kan. Quadrangle Cedar Grove

COMPANY Allegheny & Western Energy Corp.
ADDRESS P. O. Box 2587, Chas., WV 25329
DESIGNATED AGENT Dennis L. Mann
ADDRESS P. O. Box 2587, Chas., WV 25329
SURFACE OWNER Eastern Assoc. Coal
ADDRESS P. O. Box 70, Beckley, WV
MINERAL RIGHTS OWNER Eastern Assoc. Coal
ADDRESS P.O. Box 70, Beckley, WV
OIL AND GAS INSPECTOR FOR THIS WORK
C. Hively ADDRESS Elkview, WV
PERMIT ISSUED 7-31-85
DRILLING COMMENCED 8-10-85
DRILLING COMPLETED 8-17-85

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"XX	40	40	To Surf
9 5/8	1065	1065	400 SX
8 5/8			
7	2363	2363	175 SX
5 1/2			
4 1/2	4800	4800	250 SX
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3060 feet
Depth of completed well 4880 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 790 feet; Salt 1690 feet
Coal seam depths: _____ Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Big Lime Weir Pay zone depth 2258 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 120 / 820 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

Static rock pressure 505 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Devonian Shale Pay zone depth 3060 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 310 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 605 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)

KAN
4215

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DIVISION OF OIL & GAS
DEPT. OF ENERGY

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

Perforate 2411 - 3228 with 50 holes
Perforate 3299 - 4820 with 50 holes

Acidize with 8,000 gallons gelled acid.
Frac with 120,000# 20/40 sand, 2,000 gallons 15% HCl
& MscfN₂

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	1287	
Saltstone			1287	1326	
Shale			1326	1356	
Salt Sand			1356	1684	
Sand & Shale			1684	1783	
Limestone			1783	1817	
Shale & Sand			1817	2168	
Little Lime			2168	2218	
Slate & Lime			2218	2258	
Big Lime			2258	2520	
Big Injun			2520	2532	
Saltstone & Shale			2532	2584	
Weir Sand			2584	2730	
Salty Shale			2730	2974	
Coffee Shale			2974	2984	
Berea Sandstone			2984	3022	
Berea Saltstone			3022	3060	
Gary Shale			3060	4880	TD 4880' KB

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation
Well Operator

By: Dennis L. Man

12/29/2023

Date: November 1, 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 ENERGY
OIL AND GAS WELLS DIVISION

RECEIVED
119 20 1985

INSPECTOR'S WELL REPORT **DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY**

Permit No. 039-4215

Oil or Gas Well _____
(KIND)

Company <u>Allegheny + Western</u> Address _____ Farm <u>Eastern Assoc. Coal Corp</u> Well No. <u>Eastern #43-R</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 Size 16 13 10 8 3/4 6 3/4 5 3/16 3 2 Liners Used	USED IN DRILLING	LEFT IN WELL	PACKERS Kind of Packer _____ Size of _____ Depth set _____ Perf. top _____ Perf. bottom _____ 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 #15

Remarks: Set 982' of 9 5/8" casing + cemented with 315 SKS. Class A-3 90 c.c. on 8-12-85. Today drilling at 2130' and soaping hole.

8-14-85
DATE

Carlos W. Harsely
12/29/2023
DISTRICT WELL INSPECTOR

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

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AUG 20 1985

INSPECTOR'S WELL REPORT

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Oil or Gas Well _____
(KIND)

Permit No. 039-4215

Company <u>Allegheny + Western</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Eastern Assoc. Coal Corp</u>	16			
Well No. <u>Eastern #43-R</u>	13			Size of _____
District <u>Cabin Creek</u> County <u>Kanawha</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
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 E.W.A Drilling Co. Rig # 15

Remarks: set 2363' of 7" casing + cemented with 175 SKs. Class A-3% G.C. 8-14-85. Today drilling 3840' + dusting hole.

8-16-85
DATE

Carlos W. Hunsley
12/29/2023
DISTRICT WELL INSPECTOR

INSPECTOR'S PERMIT SUMMARY FORM

7-31-85

WELL TYPE Gas
ELEVATION _____
DISTRICT Cabin Creek
QUADRANGLE _____
COUNTY Kanawha

API# 47-039 - 4215
OPERATOR ATW Energy Corp.
TELEPHONE _____
FARM Eastern Assoc. Coal Corp.
WELL # Eastern # 43-R

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____

DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED _____

RECEIVED
ENERGY
OIL AND GAS

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

JUN 10 1986

CASING

Ran 982 feet of 9-8 "pipe on 8-12-85 with 3/55Ks fill up
Ran 2363 feet of 7 "pipe on 8-14-85 with 175Ks fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD 4800' feet on 8-17-85

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released 6-2-86

Carlos C. Hively 12/29/2023
Inspector's signature

API# 47 _____ - _____

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

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

103

47-039-4215

RECEIVED
DEC 26 1985

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

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

103
Section of NGPA

Category C

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

4820 feet

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Allegheny & Western Energy Corporation
Name
P. O. Box 2587

Seller Code

Street: Charleston WV 25320
City State Zip Code

Location of this well: (Complete (a) or (b).)

(a) For onshore wells:
(35 letters maximum for field name.)

Cabin Creek District
Field Name
Kanawha WV
County State

(b) For OCS wells:

Area Name Block Number

Date of Lease:

Mo. Day Yr.

DCS Lease Number

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

Eastern # 43R

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

(a) Name and code number of the purchaser:
(35 letters and digits maximum. If code number not available, leave blank.)

Mountaineer Gas Company

Buyer Code

(b) Date of the contract:

Mo. Day Yr.

(c) Estimated total annual production from the well:

Million Cubic Feet

	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c) -
B.D. Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU			
B.D. Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU			

B.D. Person responsible for this application:

Dennis L. Mann
Name Title

Dennis L. Mann
Signature

304-343-4327

Agency Use Only

Date Received by Agency: DEC 26 1985

12/29/2023

Date: Nov 22, 1985 1100

AGENCY USE ONLY

Applicant's Name: Allegheny & Western Energy Corp.

WELL DETERMINATION FILE NUMBER

Address: P. O. Box 2587

Charleston, West Virginia 25329

851226 -1030-039-4215

Gas Purchaser Contract No. Kan-1

Use Above File Number on all Communications Relating to This Well

Date of Contract 11 21 84
(Month, day and year)

First Purchaser: Mountaineer Gas Company 640

Designated Agent: Dennis L. Mann

Address: P. O. Box 3152,

Address: P. O. Box 2587

(Street or P.O. Box)

Charleston, WV

Charleston, WV 25329

(City) (State) (Zip Code)

FERC Seller Code _____

FERC Buyer Code _____

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

Name: Dennis L. Mann

Signature: _____ (Print) _____ (Title)

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

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
- 103 New Onshore Production Well
- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED

12/29/2023

RECEIVED
DEC 26 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received _____

Determination Date _____

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

Date Nov 22 1985

Operator's Well No. EASTERN #43R

API Well No. 47 - 039 - 4215
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Dennis L. Mann
ADDRESS P.O. Box 2587
Charleston, WV 25329

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

LOCATION: Elevation 1359
Watershed Banner Hollow
Dist. Cabin Crk County Kanawha Quad. Cedar Grove

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

Gas Purchase Contract No. KAN-1
Meter Chart Code N/A
Date of Contract 6-21-84

Date surface drilling was begun: 8/10/85

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 = (605 + 15) + Specific Gravity X Depth

BHP = (620 + 53)

BHP = 673

AFFIDAVIT

I, Dennis L. Mann, 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.

STATE OF WEST VIRGINIA,

COUNTY OF Kanawha, TO WIT:

Dennis L. Mann

I, Deborah J. Kuhl Aubier Notary Public in and for the state and county aforesaid,

do certify that Dennis L. Mann, whose name is signed to the writing above, bearing date the 22 day of November, 1985, has acknowledged the same before me, in my county aforesaid.

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

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

[NOTARIAL SEAL]

Deborah J. Kuhl Aubier
Notary Public

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

API well number: 47 - 039 - 4215

Type of determination being sought: 107 Section of NGPA, 3 Category Code

Depth of the deepest completion location: 4820 feet

Name, address and code number of applicant: Allegheny & Western Energy Corporation
P. O. Box 2587
Charleston WV 25329
City State Zip Code

Location of this well: Cabin Creek District
Field Name Kanawha State WV
County

(c) Name and identification number of this well: EASTERN #43

(a) Name and code number of the purchaser: Maintainer Gas Company
Name Buyer Code

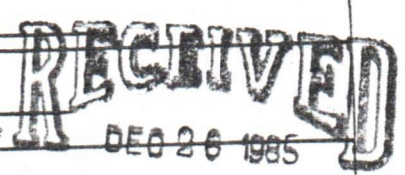
(b) Date of the contract: _____
Mo. Dev Yr.

(c) Estimated total annual production from the well: _____ Million Cubic Feet

	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
2.D Contract price: _____ (As of filing date. Complete to 3 decimal places.)	S/MMBTU _____	_____	_____	_____
3.D Maximum lawful rate: _____ (As of filing date. Complete to 3 decimal places.)	S/MMBTU _____	_____	_____	_____

Person responsible for this application: Dennis L. Mann
Name Title
Dennis L. Mann
Signature
Nov 22, 1985
304-343-4327

Agency Use Only
Date Received by Juris. Agency
DEC 26 1985



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

JAN 15 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Nov 22, 19 85 _____ 1100

AGENCY USE ONLY

Applicant's Name: Allegheny & Western Energy Corp.

WELL DETERMINATION FILE NUMBER

Address: P. O. Box 2587

851226 -1073-039-4215

Charleston, West Virginia 25329

Use Above File Number on all Communications Relating to This Well

Gas Purchaser Contract No. km-1

Date of Contract 11 21 84
(Month, day and year)

First Purchaser: Mountaineer Gas Company 640

Designated Agent: Dennis L. Mann

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

Address: P. O. Box 2587

Charleston, WV 25329

FERC Seller Code _____

FERC Buyer Code _____

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

Name: Dennis L. Mann
(Print)

(Title)

Signature: Dennis L. Mann

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

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
- 103 New Onshore Production Well
- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
- 107-1 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED

12/29/2023

RECEIVED
DEC 26 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received _____

Determination Date _____

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Allegheny and Western Energy Corp. Agent: _____

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-039-4215 Well Name: Eastern #43-R

West Virginia Office of Oil and Gas County: Kanawha
References: SJA File No. _____

Vol. _____ Page _____ Line _____

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 140 * API Units
2. Remarks: _____

Gamma Ray Scale = 0 - 200 API Units

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

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

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

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
3060'	4872'		

Total Devonian Interval _____

Total Less Than 0.7 (Shale Base) _____

Less Than 0.7 (Shale Base Line) = _____ x 100 = _____ %

13'
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.

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. Eastern #43R

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

API Well No.

NGPA Section 107

47 - 039 - 4215

State County Permit

DESIGNATED AGENT Dennis L. Mann

ADDRESS P. O. Box 2587

Charleston, West Virginia 25329

LOCATION Elevation 1359

WELL OPERATOR Allegheny & Western Energy Watershed Banner Hollow

ADDRESS P.O. Box 2587

Dist. Cabin Crk County Kan. Quad. Cedar Grove

Charleston, WV 25329

Gas Purchase

Contract No. KAN-1

GAS PURCHASER Mountaineer Gas Company

Meter Chart Code N/A

ADDRESS 414 Summers Street

Charleston, West Virginia

Date of Contract' 6-21-85

date surface drilling began: 8/10/85

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

BHP= Absolute static pressure plus pressure from gas column

BHP= (605 + 15) + (Specific Gravity X Depth)

BHP = (620 + 53)

BHP = 673

AFFIDAVIT

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

STATE OF WEST VIRGINIA

Dennis L. Mann

COUNTY OF Kanawha, TO-WIT:

Deborah J. Kuhl Auxier, a Notary Public in and for the state and county

of the aforesaid, do certify that Dennis L. Mann, whose name is signed to the writing above, bearing date the 22 day of November, 1985, has acknowledged the same before me, in my county aforesaid.

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

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

Deborah J. Kuhl Auxier
Notary Public

NOTARIAL SEAL)

MN 7-30-85

6,875'

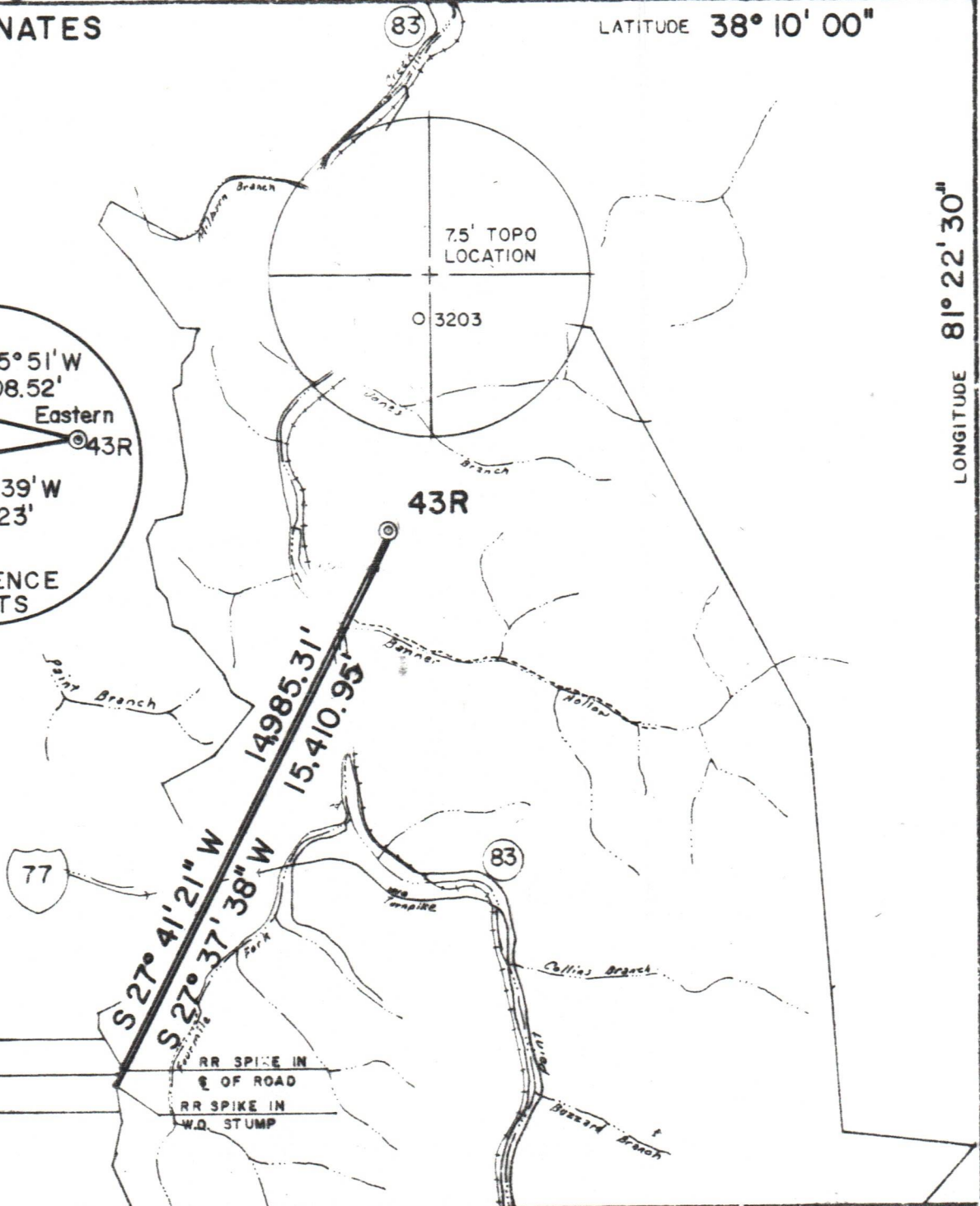
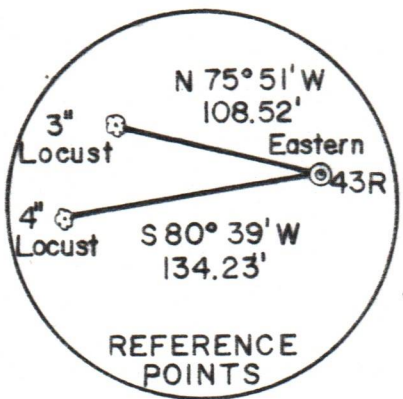
COAL COORDINATES

S 22,979.79
W 56,890.20

LATITUDE 38° 10' 00"

LONGITUDE 81° 22' 30"
3,500'

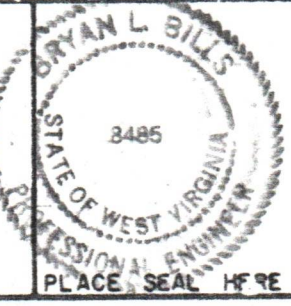
NORTH



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

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. Bills
R. P. E. 8485 L. L. S. _____



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



Department of Mines
Oil & Gas Division

DATE JULY 26 19 85
OPERATOR'S WELL NO. 43R
API WELL NO. 47-039-4215
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
LOCATION: ELEVATION 1359 WATER SHED BANNER HOLLOW
DISTRICT CABIN CREEK COUNTY KANAWHA
QUADRANGLE CEDAR GROVE 7.5'
SURFACE OWNER Eastern Associated Coal Corporation ACREAGE 21,238 12/29/2023
OIL & GAS ROYALTY OWNER Eastern Associated Coal Corporation LEASE ACREAGE 2230
LEASE NO. _____
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

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