



Well No. J. Hay No. 1
Farm _____
API # 47-087-3582
Date March 4, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil _____ / Gas x / _____
(If "Gas", Production _____ / Underground Storage _____ / Deep _____ / Shallow x / _____)

LOCATION: Elevation: 720 Watershed: Flat Fork
District: Harper County: Roane Quadrangle: Walton

WELL OPERATOR: Allegheny & Western Energy DESIGNATED AGENT: Roland Baer
Address: P. O. Box 2587 Address: P. O. Box 2587
Chas., WV 25329 Chas., WV 25329

OIL AND GAS ROYALTY OWNER: Jennings P. Hay COAL OPERATOR: N/A
Address: 9335 Carrol Rd., N. Address: _____
Pickering, OH 43147
Acres: 55

SURFACE OWNER: Jennings P. Hay COAL OWNER(S) WITH DECLARATION ON RECORD:
Address: 9335 Carrol Rd., N. NAME: N/A
Pickering, Oh 43147 Address: _____
Acres: 55 NAME: _____
Address: _____

FIELD SALE (IF MADE) TO:
NAME: N/A
Address: _____
COAL LESSEE WITH DECLARATION ON RECORD:
NAME: N/A
Address: _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME: Richard J. Morris
Address: P. O. Box 372
Grantsville, WV 26147
Telephone: (304) 354-7259

RECEIVED

APR 27 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed _____ / lease _____ / other contract x / dated 12-10, 1981, to the undersigned well operator from Alan F. Hess.

(If said deed, lease, or other contract has been recorded:)

Recorded on 12-10-, 1981, in the office of the Clerk of County Commission of Roane County, West Virginia, in 161 Book at page 692. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill Deeper _____ / Redrill _____ / Fracture or stimulate x / Plug off old formation _____ / Perforate new formation x / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above 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 receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

09/15/2023

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET BOND

Allegheny & Western Energy Corp.
Well Operator
By: Roland Baer, Jr.
Ex. [Signature]
Its: Vice President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Not Known

Address _____

GEOLOGICAL TARGET FORMATION Devonian-Brown-Marcellus-Shale

Estimated depth of completed well 5285 feet. Rotary x / Cable tools /
Approximate water strata depths: Fresh, 200 feet; salt, 2000 feet.
Approximate coal seam depths: N/A
Is coal being mined in this area: Yes / No x /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left In Well		
Conductor	13 3/8	SMLS	42 lbs	x			60 ft	20 c.t.s.	Kinds
Fresh water	9 5/8	SMLS	32		x		300 ft	100	
Coal									Sizes
Intermed.	7	SMLS	23	x			2500 ft	into 9 5/8	
Production	4 1/2	SMLS	10.5	x			5285	500 c.t.s.	Depths set
Tubing									or as required by
Liners									rule 15.01 Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 1-4-83
BY [Signature]

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 receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, 09/15/2023 the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19 .

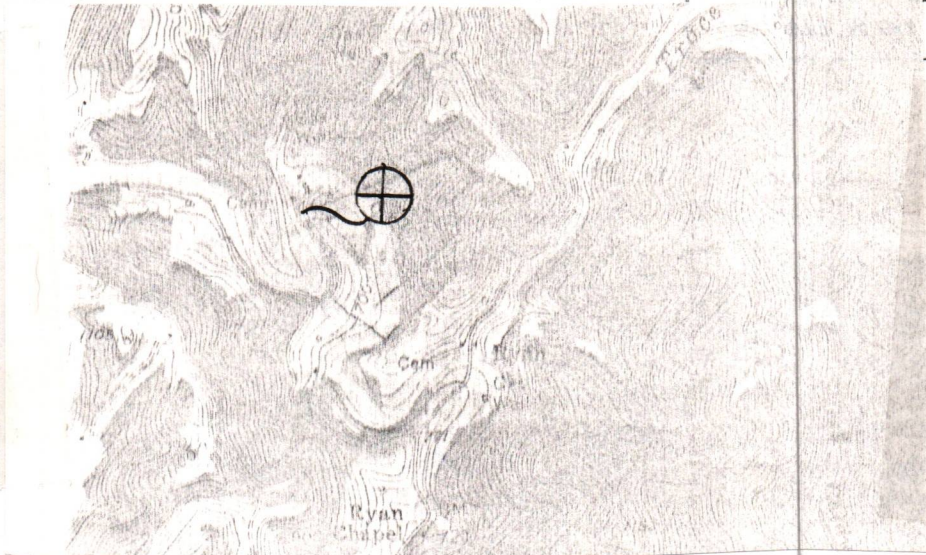
By: [Signature]

Its:

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Walton 7.5

LEGEND

Well Site ⊕

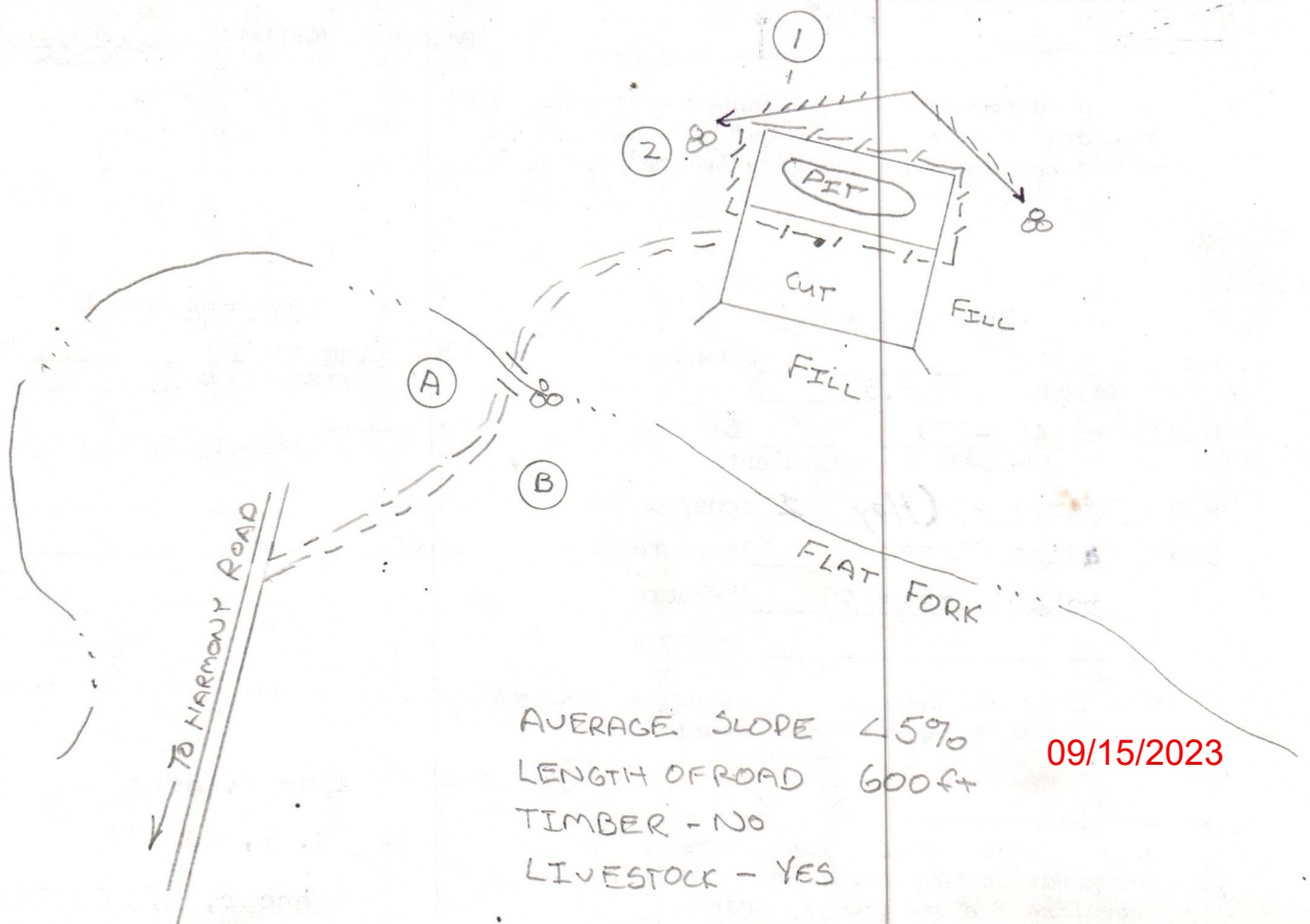


WELL SITE PLAN

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

LEGEND

Property boundary		Diversion	
Road		Spring	
Existing fence		Wet spot	
Planned fence		Building	
Stream		Drain pipe	
Open ditch		Waterway	



09/15/2023



IV-9
(Rev 8-81)

DATE March 4, 1982

WELL NO. J. Hay No. 1

State of West Virginia

API NO. 47 - 087 - 3582

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Allegheny & Western DESIGNATED AGENT Roland Baer
 Address P. O. Box 2587, Chas., WV Address P. O. Box 2587, Chas., WV
 Telephone 343-4327 Telephone 343-4327
 LANDOWNER Jennings P. Hay SOIL CONS. DISTRICT Little Kanawha
 Revegetation to be carried out by Roland Baer, Jr. (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 4-26-82

(Date)
Jarrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert metal</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>not less than 12 "</u>	Material <u>Earth</u>
Page Ref. Manual <u>1:8</u>	Page Ref. Manual <u>1:10</u>
Structure <u>Rip Rap</u> (B)	Structure <u>Rip Rap</u> (2)
Spacing _____	Material <u>Rock</u>
Page Ref. Manual <u>N/A</u>	Page Ref. Manual <u>N/A</u>
Structure _____ (C)	Structure <u>RECEIVED</u>
Spacing _____	Material <u>APR 27 1982</u>
Page Ref. Manual _____	Page Ref. Manual <u>OIL AND GAS DIVISION</u> WV DEPARTMENT OF MINES

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	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime <u>Same as I</u> Tons/acre or correct to pH _____
Fertilizer <u>400-600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer _____ lbs/acre (10-20-20 or equivalent)
Mulch <u>Hydroseed (Hay 2)</u> Tons/acre	Mulch _____ Tons/acre
Seed* <u>Ladino Clover 5</u> lbs/acre	Seed* _____ lbs/acre
<u>Orchard Grass 40</u> lbs/acre	_____ lbs/acre
_____ lbs/acre	_____ lbs/acre

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

09/15/2023

PLAN PREPARED BY Alan F. Hess

ADDRESS Rt. 1, Box 102

Spencer, WV 25276

PHONE NO. 927-5646

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

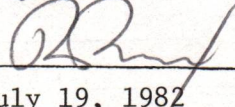
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Perforated 3039'-4196' w/25 shots and 4357'-4935' w/25 shots. Foam Frac w/1500 gal
of HCL, 120,000# of 20/50 US Mesh Sand and 1,885,000 cf of N²

WELL LOG NL Basin Surveys,

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Hard Rock			0	56	
Sandy Shale			56	430	Fresh water 90'
Shale & Red Rock			430	1541	
Salt Sand			1541	1635	Salt water 1590'
Little Lime			1635	1674	
Big Lime			1674	1780	
Injun			1780	1825	
Shale			1825	2210	
Coffee Shale			2210	2230	
Shale (Brown thru Marcellus)			2230	5015	T.D.

(Attach separate sheets as necessary)

Allegheny & Western Drilling Corporation
Well Operator

By: 

Date: July 19, 1982

09/15/2023

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."

RECEIVED

JUL 21 1982



State of West Virginia

Department of Mines
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

Date July 19, 1982
Operator's _____
Well No. J. Hay #1
Farm J. P. Hay
API No. 47 - 087 - 3582

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: 720' Watershed Flat Fork
District: Harper County Roane Quadrangle Walton 7.5

COMPANY Allegheny & Western Drilling Corp.
ADDRESS P.O. Box 2587, Chas., WV 25329
DESIGNATED AGENT Roland C. Baer, Jr.
ADDRESS SAME
SURFACE OWNER Jennings P. Hay
ADDRESS 9335 Carroll Rd.N., Pickering OH 43147
MINERAL RIGHTS OWNER SAME
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____
Deo Mace ADDRESS Sandridge, WV
PERMIT ISSUED April 4, 1982
DRILLING COMMENCED June 23, 1982
DRILLING COMPLETED June 28, 1982

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 Cord.			
13-10"			
9 5/8		275	150cf
8 5/8			
7		2038	175cf
5 1/2			
4 1/2		4960	284 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale (Brown thru Marcellus) Depth 5285 feet
Depth of completed well 5015 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 90 feet; Salt 1590 feet
Coal seam depths: N/A Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Devonian Shale (Brown thru Marcellus) Pay zone depth 3039-4935 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 260 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1050 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

Date August 3, 1982

Deo Mace
Rt. 1, Box 5
Sandridge, WV 25274

PERMIT NO.: 47-087-3582

COMPANY Allegheny & Western Drilling Corp.

FARM J. P. Hay

WELL NO.: J. Hay #1

DISTRICT Harper

COUNTY Roane

Dear Sir:

Please make a FINAL INSPECTION within thirty (30) days of the well described above, or submit a STATUS REPORT - saying why this well cannot be released at this time.

Very truly yours,

09/15/2023



State of West Virginia
Department of ~~State~~ Energy
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Allegheny + Western
Chas., W.VA.

PERMIT NO 087-3582 (4-04-82)

FARM & WELL NO J. P. Hay #1

DIST. & COUNTY Harper - Boone

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing	✓	
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed		
7.05	Identification Markings	✓	

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

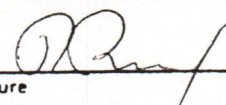
SIGNED Homer H. Dougherty
DATE 9-20-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. B.
Administrator-Oil & Gas Division

October 1, 1985
DATE

FERC-121

1.0 API well number: (If not available, leave blank, 14 digits.)	<u>47-087-3582</u>										
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA Category Code										
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>5015</u> feet										
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Allegheny & Western Energy Corporation</u> Seller Code Name <u>P.O. Box 2587</u> Street <u>Charleston</u> WV <u>25329</u> City State Zip Code										
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Harper District</u> Field Name <u>Roane</u> WV County State										
(b) For OCS wells:	<u>N/A</u> Area Name Block Number Date of Lease: _____ Mo. Day Yr. OCS Lease Number										
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>J. Hay #1</u>										
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>N/A</u>										
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>Roaring Fork Gas Corporation</u> <u>03329</u> Name Buyer Code										
(b) Date of the contract:	<u>N/A</u> Mo. Day Yr.										
(c) Estimated annual production:	<u>18</u> MMcf.										
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;"></td> <td style="width:25%; text-align: center;">(a) Base Price (\$/MMBTU)</td> <td style="width:25%; text-align: center;">(b) Tax</td> <td style="width:25%; text-align: center;">(c) All Other Prices [Indicate (+) or (-).]</td> <td style="width:25%; text-align: center;">(d) Total of (a), (b) and (c)</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>5.300</u></td> <td style="text-align: center;"><u>0.795</u></td> <td style="text-align: center;"><u>0.000</u></td> <td style="text-align: center;"><u>6.095</u></td> </tr> </table>		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)		<u>5.300</u>	<u>0.795</u>	<u>0.000</u>	<u>6.095</u>
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	<u>5.300</u>	<u>0.795</u>	<u>0.000</u>	<u>6.095</u>							
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;"></td> <td style="width:25%; text-align: center;">(a) Base Price (\$/MMBTU)</td> <td style="width:25%; text-align: center;">(b) Tax</td> <td style="width:25%; text-align: center;">(c) All Other Prices [Indicate (+) or (-).]</td> <td style="width:25%; text-align: center;">(d) Total of (a), (b) and (c)</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>5.300</u></td> <td style="text-align: center;"><u>0.795</u></td> <td style="text-align: center;"><u>0.000</u></td> <td style="text-align: center;"><u>6.095</u></td> </tr> </table>		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)		<u>5.300</u>	<u>0.795</u>	<u>0.000</u>	<u>6.095</u>
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)							
	<u>5.300</u>	<u>0.795</u>	<u>0.000</u>	<u>6.095</u>							
9.0 Person responsible for this application:	<u>Roland C. Baer, Jr.</u> <u>Executive Vice Pres</u> Name Title  Signature <u>July 20, 1982</u> <u>304)343-4327</u> Date Application is Completed Phone Number										

Agency Use Only
Date Received by Juris. Agency
JUL 22 1982

Date Received by FERC

PARTICIPANTS:

DATE: DEC 30 1982

BUYER-SELLER

WELL OPERATOR: Allegheny + Western Energy Corp.

FIRST PURCHASER: Roaring Fork Gas Corp.

OTHER: _____

03329

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
820722-107-087-3582
 Use Above File Number on all Communications
 Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

1. FERC -121 Items not completed - Line No. _____

2. IV-1 Agent Roland C. Baer

3. IV-2 Well Permit _____

4. IV-6 Well Plat

5. IV-35 Well Record Drilling Deepening _____

6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____

7. IV-39 Annual Production _____ years

8. IV-40 90 day Production _____ Days off line: _____

9. IV-48 Application for certification. Complete?

10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Affidavit Signed

18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____

(5) Date commenced: 6-23-82 Date completed 6-28-82 Deepened _____

(5) Production Depth: 3639-4935

(5) Production Formation: Devonian Shale (Brown thru Marcellus)

(5) Final Open Flow: 260 MCF

(5) After Frac. R. P. 1050# 24hr.

(6) Other Gas Test: _____

(7) Avg. Daily Gas from Annual Production: _____

(8) Avg. Daily Gas from 90-day ending w/1-120 days _____

(8) Line Pressure: _____ PSIG from Daily Re

(5) Oil Production: _____ From Completion Report _____

0-17. Does lease inventory indicate enhanced recovery being done No

0-17. Is affidavit signed? Notarized? 09/15/2023

Does official well record with the Department confirm the submitted information? yes

Additional information _____ Does computer program confirm? _____

As Determination Objected to _____ By Whom? _____

78

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL AND GAS DIVISION

Date JULY 20 1982

Operator's Well No J. Hay #1

API Well No 087 3582
State WV

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE

MGPA Section 107

DESIGNATED AGENT Roland C. Baer, Jr.

ADDRESS P.O. Box 2587

Charleston, WV 25329

WELL OPERATOR Allegheny & Western Energy

ADDRESS P.O. Box 2587

Charleston, WV 25329

LOCATION Elevation 720'

watershed Flat Fork

Dist Harper County Roane Town Walton

GAS PURCHASER Roaring Fork Gas Corp.

ADDRESS P.O. Box 3752

Charleston, WV 25337

Gas Purchase Contract No N/A

Meter Chart Code N/A

Date of Contract N/A

Date surface drilling began: June 23, 1982

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

Bottom Hole Pressure: 1,151 psia

Calculation of subsurface Pressure Using Average Compressibility Factors for Static Column Case

AFFIDAVIT

I, Roland C. Baer, Jr., 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 subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

R. Baer, Jr.

STATE OF WEST VIRGINIA.

COUNTY OF Kanawha TO WIT

I, Debra Rollyson, a Notary Public in and for the state and county aforesaid do certify that Roland C. Baer, Jr. whose name is signed to the writing above, bearing date the 20th day of July, 19 82 has acknowledged the same before me, in my county aforesaid

Given under my hand and official seal this 20th day of July, 19 82.

My term of office expires on the 26th day of February, 19 90

[NOTARIAL SEAL]

Debra Rollyson
Notary Public

09/15/2023

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. J. Hay #1

API Well No. 47 - 087 - 3582 State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable)

WELL OPERATOR Allegheny & Western Energy

DESIGNATED AGENT Roland C. Baer, Jr.

ADDRESS P.O. Box 2587

ADDRESS P.O. Box 2587

Charleston, WV 25329

Charleston, WV 25329

Gas Purchase Contract No. N/A and Date N/A (Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Roaring Fork Gas Corporation

P.O. Box 3752 (Street or P. O. Box)

Charleston WV 25337 (City) (State) (Zip Code)

FERC Seller Code N/A

FERC Buyer Code 039329

TYPE OF DETERMINATION BEING SOUGHT:

- (X) (1) Initial determination (See FERC Form 121.) 107 Section of NGPA Category Code
() (2) Determination that increased production is the result of enhanced recovery technology.
() (3) Determination of a seasonally affected well.

Roland C. Baer, Jr. Executive VP Name (Print) Title

Signature

P.O. Box 2587 Street or P. O. Box

Charleston, WV 25329 City State (Zip Code)

(304) 343-4327 Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

SEE ATTACHED

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section under the Natural Gas Policy Act of 1978. (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the day of 19 at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No.

Initial review of information submitted indicates the well is is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

JUL 22 1982

Date received by Jurisdictional Agency

Director By Title

09/15/2023

WELL : J. Hay #1

API : 47-087-3582

SUBJECT : BOTTOM HOLE PRESSURE CALCULATION

FORMULA : $BHP = P_1 + P_1 (e^x - 1)$

WHEREAS : $P_1 = \text{WELLHEAD PRESSURE} = \underline{1.050}$

$G = \text{SPECIFIC GRAVITY} = \underline{.682}$

$L = \text{DEPTH} = \underline{3.987}$

$T = \text{°F} + 460 = \underline{555}$

$$x = \frac{G \times L}{53.34 \times T} = \frac{2.719}{29,604} = \underline{.091846}$$

CALCULATION :

$$BHP = P_1 + P_1 (e^x - 1)$$

$$BHP = \underline{1.050} + \underline{1.050} (e^{\underline{.091846}} - 1)$$

$$BHP = \underline{1.050} + \underline{1.050} (1.096196 - 1)$$

$$BHP = \underline{1.050} + \underline{101} \text{ or } \underline{1.151}$$

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-087-3582</u>			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>103</u> Section of NGPA	_____ Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>5015</u> feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Allegheny & Western Energy Corporation</u> _____ Seller Code Name <u>P.O. Box 2587</u> Street <u>Charleston, WV</u> _____ WV _____ 25329 City State Zip Code			
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Harper District</u> Field Name <u>Roane</u> _____ WV _____ County State			
(b) For OCS wells:	<u>N/A</u> _____ Block Number Area Name Date of Lease: _____ Mo. Day Yr. OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>J. Hay #1</u>			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>N/A</u>			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>Roaring Fork Gas Corporation</u> _____ <u>03329</u> Name Buyer Code			
(b) Date of the contract:	_____ Mo. Day Yr.			
(c) Estimated annual production:	<u>18</u> MMcf.			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>3.152</u>	<u>0.473</u>	<u>0.000</u>	<u>3.625</u>
9.0 Person responsible for this application:	<u>Roland C. Baer, Jr.</u> _____ <u>Executive Vice Pres</u> Name Title _____ Signature <u>July 20, 1982</u> _____ <u>304) 343-4327</u> Date Application is Completed Phone Number			
Agency Use Only Date Received by Juris. Agency <u>JUL 22 1982</u> Date Received by FERC				

DEC. 30 1982

DATE: _____

BUYER-SELLER COI _____

PARTICIPANTS:

WELL OPERATOR: Allegheny + Western Energy Corp

FIRST PURCHASER: Roaring Fork Gas Corp

OTHER: _____

03329

1500' Radius Checked -> Qualified

C.H.

QUALIFIED

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
82 0722-103-087-3582
 Use Above File Number on all Communications
 Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. _____
- 2. IV-1 Agent Roland C. Baer
- 3. IV-2 Well Permit _____
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - (54) - 55 - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: 6-23-82 Date completed 6-28-82 Deepened _____
- (5) Production Depth: 3639-4935
- (5) Production Formation: Devonian Shale (Brown thru Marcellus)
- (5) Final Open Flow: 260 MCF
- (5) After Frac. R. P. 1050# 24hr
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: _____
- (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
- (8) Line Pressure: _____ PSIG from Daily Repo _____
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? yes
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

09/15/2023

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

Date July 20, 19 82

Operator's Well No. J. Hay #1

API Well No. 47 - 087 - 3582
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 Energy
ADDRESS P.O. Box 2587
Charleston, WV 25329

LOCATION: Elevation 720'
Watershed Flat Fork
Dist. Harper County Roane Quad. Walton 7.5

GAS PURCHASER Roaring Fork Gas Corp.
ADDRESS P.O. Box 3572
Charleston, WV 25337

Gas Purchase Contract No. N/A
Meter Chart Code N/A
Date of Contract N/A

* * * * *

Date surface drilling was begun: June 23, 1982

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

Bottom Hole Pressure: 1,151 psia

Calculation of Subsurface Pressure Using Average Compressibility Factors for Static Column Case

AFFIDAVIT

I, Roland C. Baer, Jr., 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.

[Signature]

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

I, Debra Rollyson, a Notary Public in and for the state and county aforesaid, do certify that Roland C. Baer, Jr. whose name is signed to the writing above, bearing date the 20th day of July, 19 82, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20th day of July, 19 82.

My term of office expires on the 26th day of February, 19 90.

[NOTARIAL SEAL]

[Signature]
Notary Public

09/15/2023

Date July 20, 19 82

Operator's Well No. J. Hay #1

API Well No. 47 - 087 - 3582
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR Allegheny & Western Energy

DESIGNATED AGENT Roland C. Baer, Jr.

ADDRESS P.O. Box 2587
Charleston, WV 25329

ADDRESS P.O. Box 2587
Charleston, WV 25329

Gas Purchase Contract No. N/A and Date N/A
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Roaring Fork Gas Corporation
P.O. Box 3752
(Street or P. O. Box)
Charleston WV 25337
(City) (State) (Zip Code)

FERC Seller Code N/A

FERC Buyer Code 039329

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 103 Section of NGPA
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Category Code _____

Roland C. Baer, Jr. Executive VP
Name (Print) Title

Signature 

P.O. Box 2587
Street or P. O. Box

Charleston, WV 25329
City State (Zip Code)

(304) 343-4327
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

SEE ATTACHED

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

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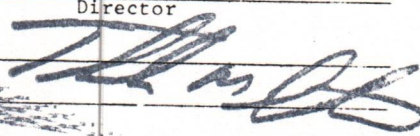
Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

JUL 22 1982

Director

Date received by _____
Jurisdictional Agency

By 
Title _____

09/15/2023

WELL : J. HAY #1

API : 47-027-3522

SUBJECT : BOTTOM HOLE PRESSURE CALCULATION

FORMULA . $BHP = P_1 + P_1 (e^x - 1)$

WHEREAS $P_1 = \text{WELLHEAD PRESSURE} = \underline{1050}$

$G = \text{SPECIFIC GRAVITY} = \underline{.682}$

$L = \text{DEPTH} = \underline{3987}$

$T = ^\circ\text{F} + 460^\circ = \underline{555}$

$x = \frac{G \times L}{53.34 \times T} = \frac{2.719}{29.604} = \underline{.091846}$

CALCULATION :

$BHP = P_1 + P_1 (e^x - 1)$

$BHP = \underline{1050} + \underline{1050} (e^{\underline{.091846}} - 1)$

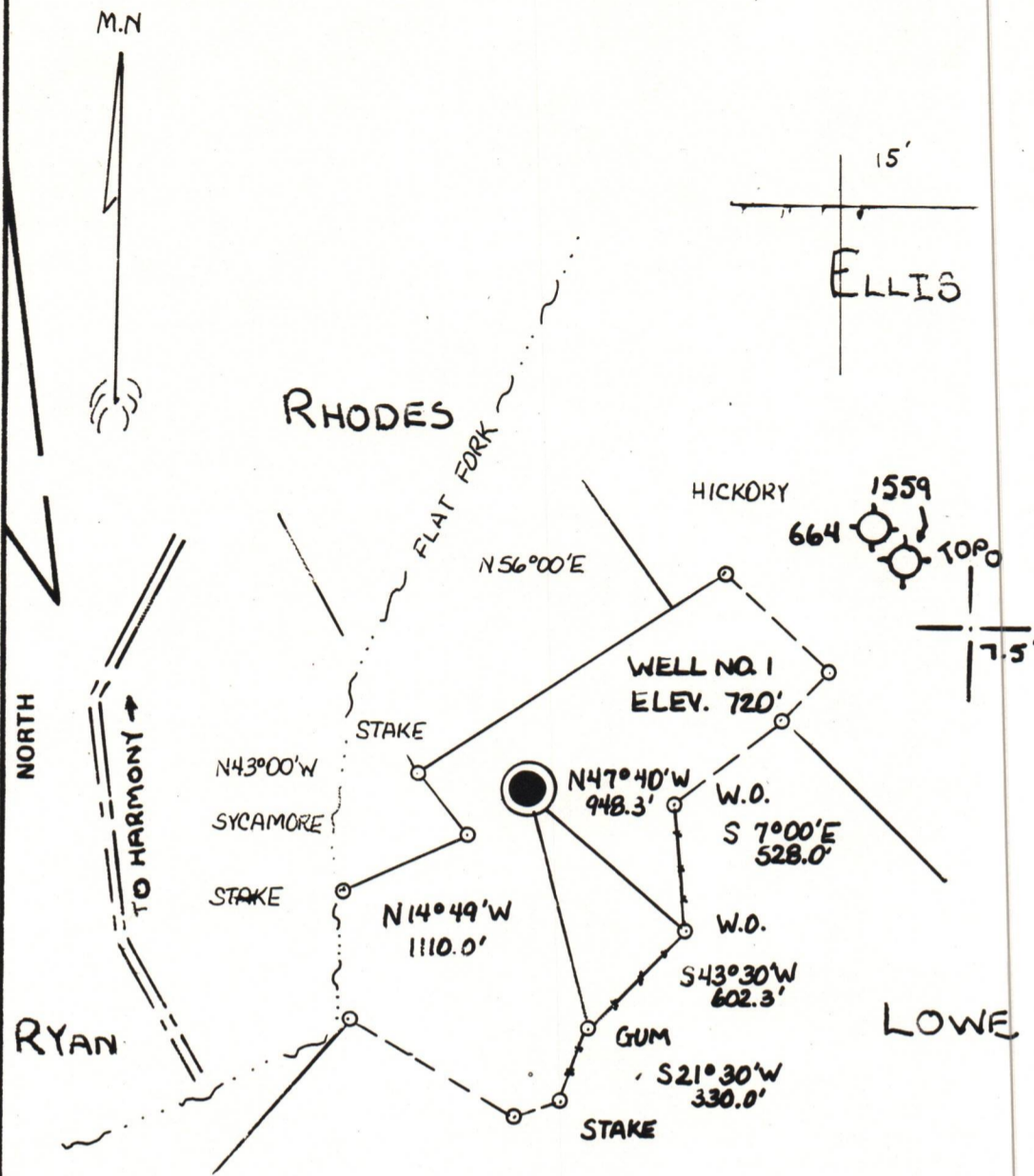
$BHP = \underline{1050} + \underline{1050} (1.096196 - 1)$

$BHP = \underline{1050} + \underline{101} \text{ OR } \underline{1151}$

09/15/2023

LATITUDE 38° 40'

LONGITUDE 81° 27' 30"



SURVEYED BY ALAN F. HESS UNDER DIRECTION OF

FILE NO. J HAY NO. 1
 DRAWING NO. _____
 SCALE 1" = 825'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. ELEV. 843'
PIGEON R. RUN & HARMONY RD.

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) _____
 R.P.E. _____ L.L.S. _____

PLACE SEAL HERE

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



DATE MARCH 4, 19 82
 OPERATOR'S WELL NO. J. HAY NO. 1
 API WELL NO. _____
47 - 087 - 3582
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 720' WATER SHED FLAT FORK
 DISTRICT HARPER COUNTY ROANE
 QUADRANGLE WALTON 7.5

SURFACE OWNER JENNINGS P. HAY ACREAGE 55
 OIL & GAS ROYALTY OWNER JENNINGS P. HAY LEASE ACREAGE 55 09/15/2023
 LEASE NO. _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5285'
 WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND BAER
 ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587
CHARLESTON, WV 25329 CHARLESTON, WV 25329