FORM IV-2
(Obverse)

(Revised 3-81)

Well No. J. Kee No. 1
Farm
API 47 - 087 - 3581
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: 1017 Watershed: Flat Fork
District: Harper County: Roane Quadrangle: Walton

WELL OPERATOR Allegheny & Western Energy
Address P. O. Box 2587
Chas., WV 25329

DESIGNATED AGENT Roland Baer
Address P. O. Box 2587
Chas., WV 25329

OIL AND GAS ROYALTY OWNER Jarrett Ellis Kee
Address Gandeeville, WV
Acreage 87.5

COAL OPERATOR N/A
Address

SURFACE OWNER Jarrett Ellis Kee
Address Gandeeville, WV
Acreage 87.5

25243

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME N/A
Address

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, 19 81, to the undersigned well operator from Alan F. Hess.

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

Recorded on 12-11, 1981, in the office of the Clerk of County Commission of Roane County, West Virginia, in 161 Book at page 696. 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.
Its: Ex. Vice President

FORM IV-2
(Reverse)

(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 5582 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 Size	Grade	Weight per ft	New	Used	FOOTAGE INTERVALS For Drilling	Left In Well	CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
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			5582	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 12-28-82.

BY _____

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, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: _____, 19___.

_____

By: _____

Its: _____

IV-9 REVERSE
(REV 8-81)

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

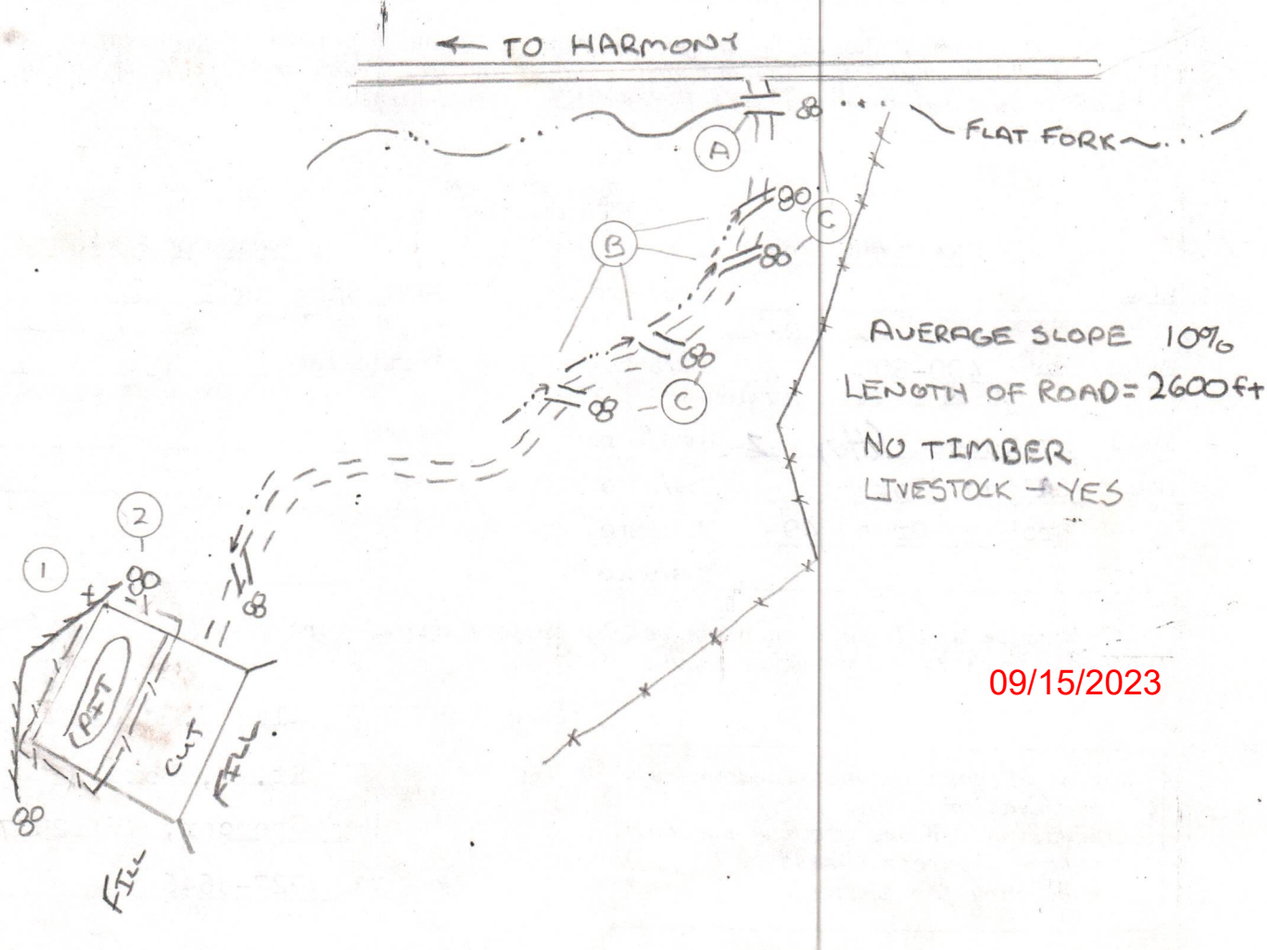
LEGEND

Well Site ⊕

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. Kee #1
API NO. 47 -087 - 3581

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Allegheny & Western Energy
Address P.O. Box 2587, Chas., WV
Telephone 343-4327
LANDOWNER J. Kee

DESIGNATED AGENT Roland Baer
Address P.O. Box 2587, Chas., WV
Telephone 343-4327
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 Newlon
(SCD Agent)

ACCESS ROAD

Structure Metal Culvert (A)
Spacing Not less than 12 "
Page Ref. Manual 1;8

Structure Ditch Relief Cross Drain (B)
Spacing 150 ft.
Page Ref. Manual 1:6

Structure Rip Rap (C)
Spacing Rock
Page Ref. Manual N/A

LOCATION

Structure Diversion Ditch (1)
Material Earth
Page Ref. Manual 1:10

Structure Rip Rap (2)
Material Rock
Page Ref. Manual N/A

Structure (3)
Material
Page Ref. Manual

RECEIVED
APR 27 1982
OIL AND GAS DIVISION
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

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 400-600 lbs/acre
(10-20-20 or equivalent)
Mulch Hydroseed (Hay 2 Tons/acre
Seed* Ladino Clover 5 lbs/acre
Orchard Grass 40 lbs/acre
_____ lbs/acre

Treatment Area II

Lime Same as I Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ 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.

FORM IV-35
(REVERSE)

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

Perforated 3754'-4589' w/25 shots and 4722'-5330' w/20 shots. Foam frac 3754'-4589' zone w/1000 gal of HCL, 60,000# of 20/50 US Mesh Sand and 1,025,000 CF of N_2. Foam frac 4722'-5330' zone w/1000 gal of HCL, 60,000# of 20/50 US Mesh Sand, and 768,000 of N_2

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	38	
Sandy SHale	38	420	Fresh Water 110'
Shale & Red rock	420	1920	
Salt Sand	1920	2045	Salt water 1980'
Little LIme	2045	2080	
Pencil Cave	2080	2084	
Big Lime	2084	2180	
Injun	2180	2220	
Shale	2220	2610	
Coffee Shale	2610	2622	
Shale (Brown thru Marcellus)	2622	5400	T.D.

(Attach separate sheets as necessary)

Allegheny & Western Drilling Corporation
Well Operator

By: [signature]

Date: July 18, 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."

IV-35
(Rev 8-81)

RECEIVED
JUL 21 1982
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 18, 1982
Operator's
Well No. J. Kee #1
Farm Jarrett Kee
API No. 47 - 087 - 3581

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: 1017' 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 Jarrett E. Kee
ADDRESS Gandeeville, WV 25243
MINERAL RIGHTS OWNER SAME
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Deo Mace ADDRESS Sandridge, WV
PERMIT ISSUED March 28, 1982
DRILLING COMMENCED June 16, 1982
DRILLING COMPLETED June 21, 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 Cond.			
13-10"			
9 5/8		336	150 cf
8 5/8			
7		2414	175 cf
5 1/2			
4 1/2		5362	284 cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale (Brown thru Marcellus Depth 5582 feet
Depth of completed well 5400 feet Rotary X / Cable Tools
Water strata depth: Fresh 110 feet; Salt 1980 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 3754-5330 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 325 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

09/15/2023

(Continue on reverse side)

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED

JUN 22 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. Roa-3581

Oil or Gas Well Gas
(KIND)

Company Allegany Petro

Address

Farm Kee Farm

Well No.

District Harper County Roane

Drilling commenced 6-15-1982

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
8¼			
6⅝			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 FWA Drilling Contractor

Remarks:

336-9⅝ Cemented to Surface.

6-16-1982
DATE

Fred B Burdette
DISTRICT WELL INSPECTOR

09/15/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

09/15/2023

IV-20
Obverse
1-84

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Allegheny + Western Chas., W.VA.

PERMIT NO 087-3581 (3-28-82)

FARM & WELL NO Jarrett Kee #1

DIST. & COUNTY Harper-Roane

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.

Administrator-Oil & Gas Division

October 1, 1985
DATE

TMS/nw

09/15/2023

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-087-3581
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA; Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5400 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Allegheny & Western Energy Corporation (Name); Seller Code P.O. Box 2587 (Street) Charleston, WV (City); WV (State); 25329 (Zip Code)
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Harper District (Field Name) Roane (County); WV (State)
(b) For OCS wells:	N/A (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.)	J. Kee #1
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Roaring Fork Gas Corporation (Name); 03329 Buyer Code
(b) Date of the contract:	N/A Mo. Day Yr.
(c) Estimated annual production:	18 MMcf.

	(a) Base Price ($/MMBTU)	(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.)	3.152	0.473	0.000	3.625
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	3.152	0.473	0.000	3.625

9.0 Person responsible for this application:

Roland C. Baer, Jr. (Name); Executive Vice Pres (Title)

Signature

July 20, 1982 (Date Application is Completed); 304) 343-4327 (Phone Number)

Agency Use Only

Date Received by Juris. Agency: JUL 22 1982

Date Received by FERC

FT7900806/2-2

09/15/2023

PARTICIPANTS: DATE: DEC 30 1982 BUYER-SELLER CODE

WELL OPERATOR: Allegheny & Western Energy Corp. —

FIRST PURCHASER: Roaring Fork Gas Corp. 03329

OTHER:

1500' Radius Checked → Qualifies

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
820722-103-087-3581
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: 6-16-82 Date completed 6-21-82 Deepened —

(5) Production Depth: 3754-5330

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

(5) Final Open Flow: 325 MCF

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

(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 Report

(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

7B

FORM IV-54WC
[12-78]

Date July 20, 19 82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. J. Kee #1

API Well No. 47 - 087 - 3581
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

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

LOCATION: Elevation 1017'
Watershed Flat Fork
Dist. ~~Harper~~ County Roane Quad. Walton 7.5
Gas Purchase Contract No. N/A
Meter Chart Code N/A
Date of Contract N/A

* * * * * * * * * * * * * * * * * * *

Date surface drilling was begun: June 16, 1982

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

Bottom Hole Pressure: 1,165 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.

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]

Notary Public

09/15/2023

FORM IV-48WC
[12-78]

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date July 20, 19 82

Operator's Well No. J. Kee #1

API Well No. 47 - 087 - 3581
State County Permit

Previous File No. _____ (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Allegheny & Western Energy

ADDRESS P.O. Box 2587
Charleston, WV 25329

DESIGNATED AGENT Roland C. Baer, Jr.

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

FERC Seller Code N/A

FERC Buyer Code 039329

TYPE OF DETERMINATION BEING SOUGHT:

[X] (1) Initial determination (See FERC Form 121.) 103 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. Name (Print) Executive VP Title

Signature

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

Charlesotn, 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

_____ Director

JUL 22 1982

Date received by Jurisdictional Agency

By _____

Title _____

09/15/2023

FERC-121

RECEIVED
JUL 22 1982
OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-087-3581
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA; Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5400 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Allegheny & Western Energy Corporation (Name); Seller Code P.O. Box 2587 (Street) Charleston (City) WV (State) 25329 (Zip Code)
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Harper District (Field Name) Roane (County) WV (State)
(b) For OCS wells:	N/A (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.)	J. Kee #1
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Roaring Fork Gas Corporation (Name); 03329 (Buyer Code)
(b) Date of the contract:	N/A (Mo. Day Yr.)
(c) Estimated annual production:	18 MMcf.

	(a) Base Price ($/MMBTU)	(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.)	5.300	0.795	0.000	6.095
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.300	0.795	0.000	6.095

9.0 Person responsible for this application:

Roland C. Baer, Jr. (Name) — Executive Vice Pres (Title)

Signature

July 20, 1982 (Date Application is Completed) — 304)343-4327 (Phone Number)

Agency Use Only

Date Received by Juris. Agency: JUL 22 1982

Date Received by FERC

FT7900806/2-2

09/15/2023

PARTICIPANTS: DATE: DEC 30 1982 BUYER-SELLER COD

WELL OPERATOR: Allegheny & Western Energy Corp. —

FIRST PURCHASER: Roaring Fork Gas Corp. 03329

OTHER:

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
82 0722-107-0887-3581
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: 6-16-82 Date completed 6-21-82 Deepened —

(5) Production Depth: 3754-5330

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

(5) Final Open Flow: 325 MCF

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

(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 Rep

(5) Oil Production: — From Completion Report —

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

0-17. Is affidavit signed? ✓ Notarized? ✓

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

dditional information ____ Does computer program confirm? ____

as Determination Objected to ____ By Whom? ____

09/15/2023

7B

FORM IV-55WC
[12-78]

Date JUly 20 1982

Operator's Well No J. Kee #1

API Well No - 087 - 3581
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL AND GAS DIVISION

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

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

GAS PURCHASER Roaring Fork Gas Corp.
ADDRESS P.O. Box 3752
Charlesotn, WV 25337

LOCATION Elevation 1017'
Watershed Flat Fork
Dist Harper County Roane Quad Walton

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

* * *

Date surface drilling began: June 16, 1982

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

Bottom Hole Pressure: 1,165 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.

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

Debra L. Rollyson
Notary Public

[NOTARIAL SEAL]

09/15/2023

FORM IV-48WC
[12-78]

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date July 20, 19 82

Operator's Well No. J. Kee #1

API Well No. 47 - 087 - 3581
State County Permit

Previous File No. (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Allegheny & Western Energy

ADDRESS P.O. Box 2587

Charleston, WV 25329

DESIGNATED AGENT Roland C. Baer, Jr.

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 (City) WV (State) 25337 (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. Name (Print) Executive VP Title

Signature

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

Charlesotn, City WV State 25329 (Zip Code)

(304 Area Code 343-4327 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

_____ Director

By _____

Title _____

JUL 22 1982

Date received by Jurisdictional Agency

09/15/2023

WELL: J. Rees #1

API: 47-087-3581

SUBJECT: BOTTOMHOLE PRESSURE CALCULATION

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

WHEREAS: P_1 = WELLHEAD PRESSURE = 1,050

G = SPECIFIC GRAVITY = .682

L = DEPTH = 4542

T = °F + 460° = 560

$$x = \frac{G \times L}{53.34 \times T} = \frac{3,098}{29,870} = .103716$$

CALCULATION:

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

$$BHP = 1,050 + 1,050 (e^{.103716} - 1)$$

$$BHP = 1,050 + 1,050 (1.1092854 - 1)$$

$$BHP = 1,050 + 115 \text{ OR } 1,165$$

09/15/2023

WELL : [illegible]

API : 47-027-3521

SUBJECT : BOTTOM HOLE PRESSURE CALCULATION

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

WHEREAS : P_1 = WELLHEAD PRESSURE = 1,050

G = SPECIFIC GRAVITY = .680

L = DEPTH = 4542

T = °F + 460° = 560

$$x = \frac{G \times L}{53.34 \times T} = \frac{3,092}{29,870} = .103716$$

CALCULATION :

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

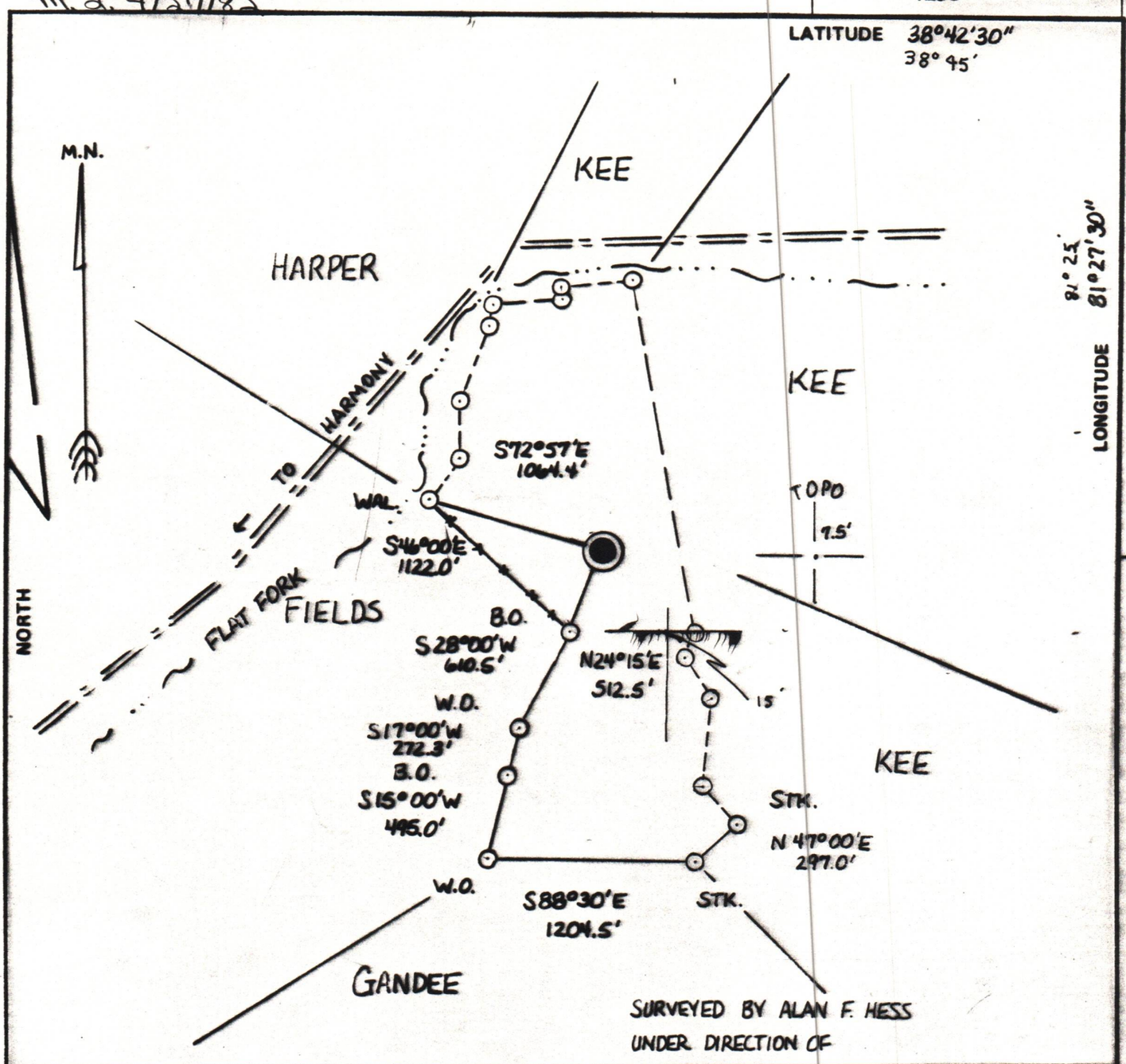
$$BHP = 1,050 + 1,050 (e^{.103716} - 1)$$

$$BHP = 1,050 + 1,050 (1.109326 - 1)$$

$$BHP = 1,050 + 115 \text{ OR } 1,165$$

09/15/2023

M.L. 4/27/82



SURVEYED BY ALAN F. HESS
UNDER DIRECTION OF

FILE NO. J. KEE 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) Thallan J. Bond

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. KEE NO. 1
API WELL NO.
47 - 087 - 3581
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 1017' WATER SHED FLAT FORK
DISTRICT HARPER COUNTY ROANE
QUADRANGLE WALTON 7.5

SURFACE OWNER JARRETT ELLIS KEE ACREAGE 87.5
OIL & GAS ROYALTY OWNER JARRETT ELLIS KEE LEASE ACREAGE
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 5582'
WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND BAER
ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587
CHAS., WV 25329 CHAS., WV 25329