

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 5355 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	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling		
Conductor	13 3/8	SMLS	42 lbs	x		60 ft	20 c.t.s.	
Fresh water	9 5/8	SMLS	32	x		300 ft	100	
Coal								
Intermed.	7	SMLS	23	x		2500 ft	into 9 5/8	
Production Tubing	4 1/2	SMLS	10.5	x		5355 ft	500 c.t.s.	
Liner							or as required by rule 15.01	

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 4-17-83 **,**
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, provided the coal operator has complied with all applicable requirements of the West Virginia governing regulations.

09/15/2023

Date: _____, 19____
 By: _____
 Title: _____



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

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 790 Watershed: Flat Fork
District: Harper County: Roane Quadrangle: Walton

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

ROYALTY OWNER: Jarrett Ellis Kee
Address: Box 4
Harmony, WV

COAL OPERATOR: N/A
Address:

SURFACE OWNER: Jarrett Ellis Kee
Address: Box 4
Harmony, WV

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

FIELD SALE (IF MADE) TO:
NAME: N/A
Address:

NAME:
Address:

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME: Deo Mace
Address: Rt. 1, Box 5
Sandridge, WV 25274
Telephone: 655-7398

COAL LESSEE WITH DECLARATION ON RECORD:
NAME: N/A
Address:

RECEIVED
AUG 18 1982
OIL & GAS DIVISION
DEPT. 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 dated , 19 , to the undersigned well operator from Alan F. Hess

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

Recorded on , 19 , in the office of the Clerk of County Commission of Roane County, West Virginia, in Book at page . A permit is requested as follows:

PROPOSED WORK: Drill / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / 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 22-2-3 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.

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

By: R F Hess
Its:

09/15/2023

BLANKET BOND



DATE: August 13, 19 82
OPERATOR'S
WELL NO.: Kee #2

API NO: 47 - 087 - 3656
State County Permit No.

State of West Virginia

OFFICE OF OIL AND GAS
DEPARTMENT OF MINES

A F F I D A V I T

State of West Virginia

County of Kanawha

I, Robert H. Hess (the designated owner or operator, or authorized representative thereof), after being duly sworn, do depose and say that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached do state that (he, she, or it) shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia Code 22-4-11(e) (1982).

Signed: *RH Hess*

Taken, Subscribed, and sworn to before me this 13th day of August, 1982.

Notary: *Roger A Murray*

My Commission Expires: June 3, 1992

RECEIVED
AUG 18 1982

OIL & GAS DIVISION
DEPT. OF MINES

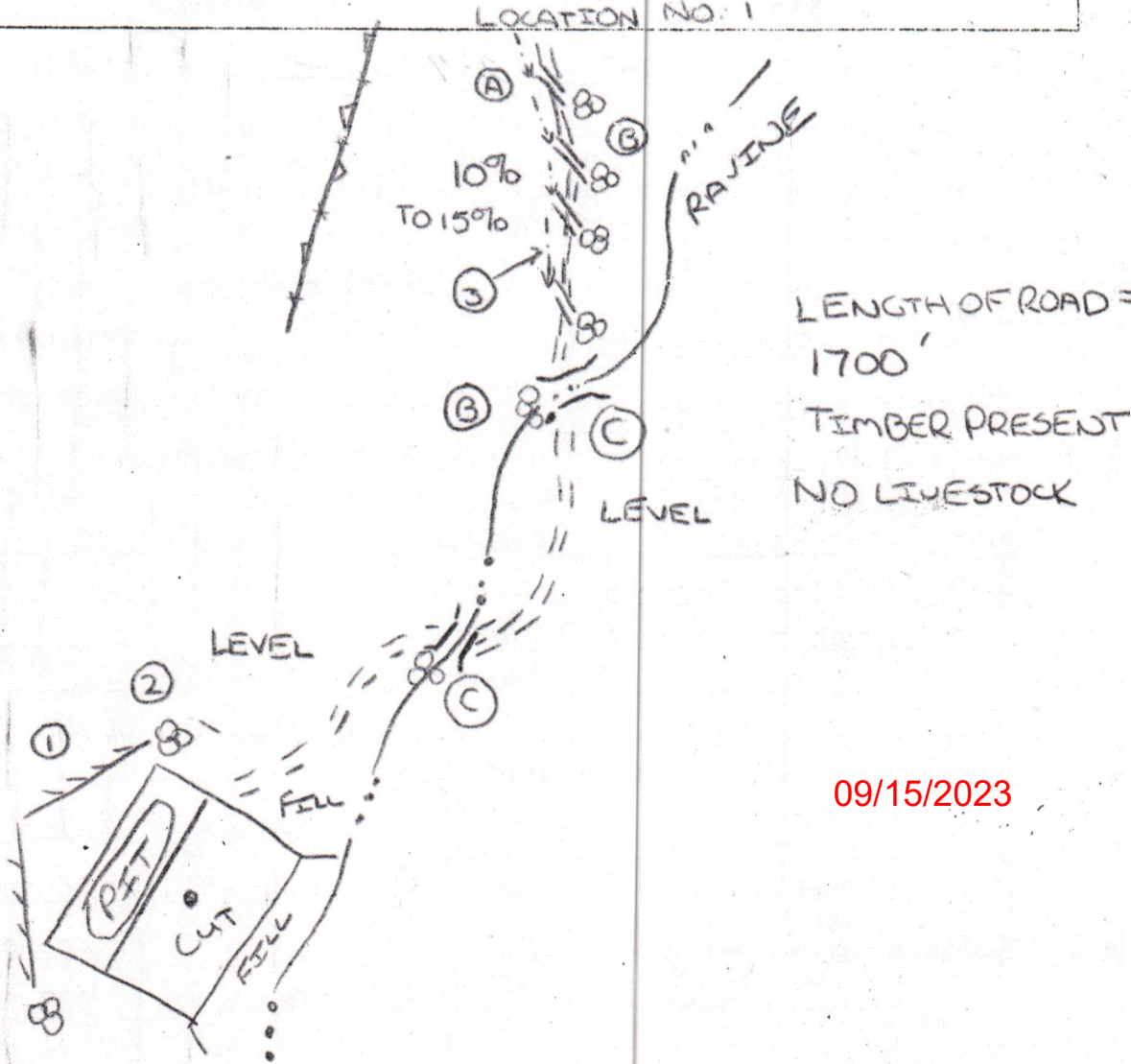
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Walton

LEGEND	
Well Site	⊕
Access Road	—

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	—▲—▲—▲—▲—▲—▲—
Road	== == == == ==
Existing fence	—X—X—X—X—
Planned fence	—/—/—/—/—/—/—
Stream	~ ~ ~ ~ ~
Open ditch	—>—>—>—>—>—>—
Diversion	~~~~~
Spring	⊙ →
Wet spot	⊙
Building	■
Drain pipe	—○—○—○—○—
Waterway	⇄ ⇄ ⇄ ⇄



09/15/2023



IV-9
(Rev 8-81)

DATE August 1, 1982

WELL NO. J. Kee No. 2

State of West Virginia

API NO. 47 - 087 - 3656

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Allegheny & Western Energy 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 Jarrett Ellis Kee

SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Roland Baer (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 8-11-82

(Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Drainage Ditch</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>Earth</u>	Material <u>Earth</u>
Page Ref. Manual <u>I-9 or 2-12</u>	Page Ref. Manual <u>I-9 or 2-12</u>
Structure <u>Rip Rap</u> (B)	Structure <u>Rip Rap</u> (2)
Spacing <u>N/A</u>	Material <u>Stone</u>
Page Ref. Manual <u>1:15</u>	Page Ref. Manual <u>1:15</u>
Structure <u>Culvert</u>	Structure <u>Drainage Ditch</u> (3)
Spacing <u>36" Metal</u>	Material _____
Page Ref. Manual <u>I-9 or 2-7</u>	Page Ref. Manual <u>2-12</u>

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</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 Route 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.



RECEIVED

AUG 13 1982

OIL & GAS DIVISION
DEPT. OF MINES

09/15/2023



09/15/2023

A S S I G N M E N T

THIS AGREEMENT Made this 7th day of July
19 82, by and between Alan F. Hess
Part y of the First Part, hereinafter called Assignor, and
~~Allegheny and Western Energy Corporation~~
a Corporation, Part y of the Second Part, hereinafter called Assignee;

W I T N E S S E T H

That for and in consideration of the sum of \$5.00
_____ Dollars per acre and other good and
valuable consideration, receipt and sufficiency whereof is hereby
acknowledged, the assignor does hereby sell, transfer, grant, convey,
and assign unto the assignee all of those certain oil and gas leases and
oil and gas leasehold estates created thereby, which property is situate
in the District of Harper, County of Roane, and
State of West Virginia, which is more particularly bounded and described
as follows:

On the North by lands of A. N. Kee Heirs
On the East by lands of Jarrett Ferrell Heirs
On the South by lands of Forrest Kee
On the West by lands of Harold Nichols
Containing 24.5 _____ acres, more or less.

Being the same leasehold created and granted to _____
Alan F. Hess
by Jarrett Ellis Kee and Patricia Kee
by lease agreement bearing date 7 July 1982, which lease
agreement is of record in the Office of the Clerk of the County Court of
Roane County, West Virginia, in Lease Book and Page No.

There is excepted and reserved for the benefit of the assignor
an undivided 1/32 of 7/8 _____ ()
overriding royalty interest which interest shall be free of all expenses
of development and production.

This assignment is made subject to all terms, conditions, exceptions,
and reservations set out and contained in the original lease or leases
and the assignments in the chain of title.

RECEIVED
AUG 18 1982

09/15/2023

OIL & GAS DIVISION
DEPT. OF MINES

TO HAVE AND TO HOLD the said leasehold estate herein assigned unto the said ~~Allegheeny and Western Energy Corporation~~ a Corporation, and its assigns, subject to the terms hereof and the terms, limitations, rents, royalties, and payments contained in the original lease.

WITNESS the following signatures and seals:

(SEAL)

(SEAL)

(SEAL)

(SEAL)

STATE OF WEST VIRGINIA,

COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19_____.

Notary Public

My commission expires: _____

STATE OF _____,

COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19_____.

Notary Public

My commission expires: _____

THIS INSTRUMENT PREPARED BY:

ALAN F. HESS
Route 1, Box 102
Spencer, WV 25276

09/15/2023

RECEIVED

AUG 13 1982

OIL & GAS DIVISION
DEPT. OF REVENUE

This assignment is made subject to all terms, conditions, exceptions, and reservations set out and contained in the original lease or leases and the assignments in the chain of title.

TO HAVE AND TO HOLD the said leasehold estate herein assigned unto the said Allegheny and Western Energy Corporation a Corporation, and its assigns, subject to the terms hereof and the terms, limitations, rents, royalties, and payments contained in the original lease.

WITNESS the following signatures and seals:

Alan F. Hess (SEAL)

(SEAL)

(SEAL)

(SEAL)

STATE OF WEST VIRGINIA,
COUNTY OF Roane, to-wit:

The foregoing instrument was acknowledged before me this 10th day of December, 1981.

Susan M. Hess
Notary Public

My commission expires: 14 July 1991

STATE OF _____,
COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 1981.

Notary Public

My commission expires: _____

THIS INSTRUMENT PREPARED BY:

ALAN F. HESS
Route 1, Box 102
Spencer, WV 25276

STATE OF WEST VIRGINIA,
ROANE COUNTY COMMISSION CLERK'S OFFICE, 11 Dec 1981 2:41 P.M.

Book No. 161

The foregoing instrument together with the certificate thereto annexed, was this date admitted to record in said office.

File No. 11896
Fee \$ 3.00

GENE M. ASHLEY, Clerk 09/15/2023
By Carolyn Batten Deputy

RECEIVED

AUG 13 1982

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

Perforated 3,222 - 4,535 w/35 shots. Nitrogen foam frac with 1500 gas of 15% HCL, 60,000# of 20/50 U. S. Mesh Sand, and 1,236.000 CF of N2.

WELL LOG N. L. 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	30	
Sandy Shale			30	530	
Shale and Red Rock			530	1653	
Salt Sand			1653	1890	
Big Lime			1890	1960	
Injun			1960	1980	
Shale			1980	2374	
Coffee Shale			2374	2386	
Shale			2386	4900	T. D.

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation
Well Operator

By: RA 09/15/2023
Date: September 17, 1982

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



IV-35
(Rev 8-81)

SEP 20 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
State of West Virginia
Department of Mines
Oil and Gas Division

Date September 17, 1982
Operator's
Well No. J. Kee #2
Farm Jarrett E. Kee
API No. 47 - 087 - 2656

-3656

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

COMPANY Allegheny & Western Energy Corp.

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

DESIGNATED AGENT Roland C. Baer, Jr.

ADDRESS SAME

SURFACE OWNER Jarrett E. Kee

ADDRESS Box 4, Harmony, WV

MINERAL RIGHTS OWNER SAME

ADDRESS SAME

OIL AND GAS INSPECTOR FOR THIS WORK

Deo Mace ADDRESS Rt 1, Box 5, Sandridge, WV

PERMIT ISSUED August 17, 1982

DRILLING COMMENCED August 23, 1982

DRILLING COMPLETED August 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 Cond.			
13-10"			
9 5/8		315	150cf
8 5/8			
7		2267	175cf
5 1/2			
4 1/2		4859	294cf
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale (Brown /Marcellus) Depth 5355 feet

Depth of completed well 4900' feet Rotary X / Cable Tools

Water strata depth: Fresh 110 feet; Salt 1810 feet

Coal seam depths: N/A Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Devonian Shale (Brown/Marcellus) Pay zone depth 322-4535 feet

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

Final open flow 220 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 09/15/2023 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

(Continue on reverse side)

ROY-3656

15. This lease embodies the entire contract and agreement between Lessor and Lessee, and no warranties, representations, promises or inducements not herein expressed have been made or relied upon by either party. The terms, conditions and stipulations hereof shall extend to the respective heirs, executors, administrators, successors and assigns of the parties hereto.

Witness the hands and seals of the parties hereto the day and year first above written.

WITNESS:

X Jarrett E Kee (SEAL)
Patricia A Kee (SEAL)
(SEAL)
(SEAL)
(SEAL)
(SEAL)
(SEAL)
(SEAL)

WEST VIRGINIA ACKNOWLEDGMENT

STATE OF WEST VIRGINIA

COUNTY OF Roane

To-wit:

I, Susan M. Hess, Jarrett E. Kee and Patricia A. Kee, a Notary Public of said County, do hereby certify that

whose names are signed to the within writing bearing date the 1st day of December, 1981 have this day acknowledged the same before me in my said County.

Given under my hand this 1st day of December, 1981. Susan M. Hess, Notary Public

My Commission expires 14 July 1991

WEST VIRGINIA ACKNOWLEDGMENT

STATE OF WEST VIRGINIA

COUNTY OF

To-wit:

I, a Notary Public of said County, do hereby certify that

whose name signed to the within writing bearing date the day of 19 ha this day acknowledged the same before me in my said County.

Given under my hand this day of 19 Notary Public

My Commission expires

OHIO ACKNOWLEDGMENT

STATE OF OHIO,

COUNTY OF

SS.

STATE OF WEST VIRGINIA, ROANE COUNTY COMMISSION CLERK'S OFFICE, 2 December 1981 10:27 AM

Book No. 161

The foregoing instrument together with the certificate thereto annexed, was this date admitted to record in said office.

File No. 11739

Fees \$ 4.50

GENE M. ASHLEY, Clerk

By Carolyn Batten Deputy

CASTO & HARRIS INC., SPENCER, W. VA. RE ORDER 76626

THIS INSTRUMENT PREPARED BY

ALAN F. HESS ROUTE 1, BOX 102 SPENCER, WV 25276

ADMITTED TO RECORD

DEC - 2 AM 10: 27 1981

GENE M. ASHLEY ROANE COUNTY COMMISSIONER W. VA.

RECORDING DATA:

Term County State Location Acres Date 19

TO

09/15/2023

Oil and Gas Lease

Globe Form 100 - Rev. (Standard Ohio & W. Va.)

OIL AND GAS LEASE BOOK 161 PAGE 493

AGREEMENT, made and entered into this 1ST day of DECEMBER A. D. 1981 by and between JARRETT ELLIS KEY AND PATRICIA ANN KEY (HIS WIFE) HARMONY ROUTE BOX 4 HARMONY W. VA. 25246

of Alan F. Hess party of the first part, hereinafter called Lessor (whether one or more), and party of the second part, hereinafter called Lessee;

1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents and of storing gas of any kind in any formation underlying the land, and also the right to enter thereon at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey

the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in HARPER District, County of Roane, State of West Virginia, and described as follows, to-wit: Bounded on the

NORTH by lands of BRELL KEY

EAST by lands of MAXINE KEY

SOUTH by lands of HAROLD NICHOLS

WEST by lands of F.S. FERRELL, JOE FIELDS, A.M. WESTFALL

Containing 82.5 ac. acres, more or less and being the same land conveyed to lessor by

A.H. J.E.K. changed 5 acres by deed dated and recorded in said county records in Book No. Page

2. It is agreed that this lease shall remain in force for a primary term of ONE year from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, or any formation underlying the herein leased land is used for storage of gas as provided under paragraph 7 hereof.

3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth (1/8) part of all oil produced and saved from the leased premises, and shall pay Lessor their proportionate part of the 1/8 royalty

for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Fifty Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof.

4. The Lessee shall commence operations for a well on the premises on or before MARCH 1, 1982, unless Lessee pays thereafter a rental of their p/o \$5./acre for each 12 months that operations are delayed from the time above mentioned.

The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted.

5. All moneys coming due hereunder shall be paid or tendered to Name above direct, or by check payable to his (or her) order mailed to Address above

and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default.

6. Lessor reserves 200,000 cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that his taking and use of gas shall be wholly at his own risk, the Lessee not to be held liable for any accident or damage caused thereby, nor shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use.

7. Lessor grants to the Lessee, his heirs and assigns, the right to utilize this lease with other leases to form a drilling unit or units according to the rules and regulations which may be adopted for the proper development and conservation of the field; in the event this lease is so unitized, the Lessor agrees to accept, in lieu of the royalty heretofore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.

8. If said Lessor owns a less interest in the above described land than the undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the Lessor only in the proportion which his interest bears to the whole and undivided fee.

9. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures placed on said premises, including the right to draw and remove casing. Lessee shall pay for damages caused by its operations to growing crops on said lands, and, when requested by Lessor, shall bury its pipe lines below plow depth.

10. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part being expressly allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part or parts of said land upon which the said Lessee or any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a certified copy thereof.

11. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancellation, after which all payments and liabilities hereunder thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person or by mail addressed to the post office address of such person, or by recording a duly executed surrender thereof in the Recorder's office of the County in which the land is located.

12. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

13. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is produced in paying quantities.

14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is produced in paying quantities.

PICK UP

PICK UP

09/15/2023

15. This lease embodies the entire contract and agreement between Lessor and Lessee, and no warranties, representations, promises or inducements not herein expressed have been made or relied upon by either party. The terms, conditions and stipulations hereof shall extend to the respective heirs, executors, administrators, successors and assigns of the parties hereto.

Witness the hands and seals of the parties hereto the day and year first above written.

WITNESS:

ADMITTED TO RECORD

387 JUL 12 AM 10:53

GENE M. ASHLEY
ROANE COUNTY COMMISSIONER
W. VA.

Garrett E. Kee
Patricia Kee

(SEAL)
(SEAL)
(SEAL)
(SEAL)
(SEAL)
(SEAL)
(SEAL)

WEST VIRGINIA ACKNOWLEDGMENT

STATE OF WEST VIRGINIA

COUNTY OF Roane

To-wit:

I, Susan M. Hess a Notary Public of said County, do hereby certify that

Garrett Ellis Kee and Patricia Kee
whose names are signed to the within writing bearing date the 7th day of July, 1982
have this day acknowledged the same before me in my said County.

Given under my hand this 7th day of July, 1982
Susan M. Hess
Notary Public

My Commission expires 14 July 1992

WEST VIRGINIA ACKNOWLEDGMENT

STATE OF WEST VIRGINIA

COUNTY OF _____

To-wit:

I, _____ a Notary Public of said County, do hereby certify that

whose name _____ signed to the within writing bearing date the _____ day of _____, 19____
has this day acknowledged the same before me in my said County.

STATE OF WEST VIRGINIA,
ROANE COUNTY COMMISSION CLERK'S OFFICE, 12 July 1982 10:53 A.

Book No. 168

The foregoing instrument together with the certificate thereto annexed, was this date admitted to record in said office.

File No. 15744

Fees \$ 4.50

GENE M. ASHLEY, Clerk

By Carolyn Starbird Deputy

CASTO & HARRIS INC., SPENCER, W. VA. RE-ORDER NO 77978

_____ who acknowledged that he _____ did sign the foregoing instrument, and that the same is _____ free act and deed. In testimony whereof I have hereunto subscribed my name at _____ this _____ day of _____, 19____.

My Commission expires _____

Notary Public

(Standard Ohio & W. Va.)
Oil and Gas Lease

TO 09/15/2023

Date _____, 19____
Acres _____
Location _____
County _____ State _____
Term _____
RECORDING DATA:

This Instrument Prepared By

Alan F. Hess
Route 1 Box 102
Spencer, WV 25276

1982



MINES

OIL AND GAS LEASE

AGREEMENT, made and entered into this 7th day of July A. D. 1982
 by and between Jarrett Ellis Kee and Patricia Kee, His Wife
Harmony Pt., Box 4
Harmony, WV

of Alan E. Hess / Allegheny + Western Energy party of the first part, hereinafter called Lessor (whether one or more),
 and Alan E. Hess / Allegheny + Western Energy party of the second part, hereinafter called Lessee;

1. WITNESSETH: That the Lessor, in consideration of the sum of One Dollar, the receipt of which is hereby acknowledged, and the covenants and agreements hereinafter contained, does hereby grant unto the Lessee all of the oil and gas and all of the constituents of either in and under the land hereinafter described, together with the exclusive right to drill for, produce and market oil and gas and their constituents and of storing gas of any kind in any formation underlying the land, and also the right to enter thereon at all times for the purpose of drilling and operating for oil, gas and water, laying pipe lines, erecting tanks, machinery, powers and structures, and to possess, use, and occupy so much of said premises as is necessary and convenient for said purposes and to convey

the above named products therefrom or thereto by pipe lines or otherwise; said land being situate in Harper District,
 County of Roane, State of West Virginia Township,

NORTH by lands of A.N. Kee Heirs, and described as follows, to-wit: Bounded on the

EAST by lands of Jarrett Ferrell Heirs,

SOUTH by lands of Forrest Kee,

WEST by lands of Harold Nichols

Containing 24.5 acres, more or less and being the same land conveyed to lessor by

by deed dated _____ and

recorded in said county records in _____ Book No. _____ Page _____

2. It is agreed that this lease shall remain in force for a primary term of one (1) years from this date and as long thereafter as operations for oil or gas are being conducted on the premises, or oil or gas is found in paying quantities thereon, or any formation underlying the herein leased land is used for storage of gas as provided under paragraph 7 hereof.

3. The Lessee shall deliver to the credit of the Lessor free of cost, in the pipe line to which he may connect his wells, the equal one-eighth ($\frac{1}{8}$) part of all oil produced and saved from the leased premises, and shall pay Lessor

their proportionate part of the $\frac{1}{8}$ royalty
 for all gas and casing head gas produced and sold from the premises, payable monthly; provided, Lessee shall pay Lessor a royalty at the rate of Fifty Dollars per year on each gas well while, through lack of market, gas therefrom is not sold or used off the premises, and while said royalty is so paid said well shall be held to be a paying well under paragraph 2 hereof.

4. The Lessee shall commence operations for a well on the premises on or before July 7, 1982, unless Lessee

pays thereafter a rental of their part of \$5.00/acre for each 12 months that operations are delayed from the time above mentioned. The consideration first recited herein, the down payment, shall cover not only the privilege granted to the date when first said rental is payable as aforesaid, but also the Lessee's option of extending that period as aforesaid, and any and all other rights conferred. The drilling of a non-productive well shall be accepted by the Lessor in lieu of delay rental for a period of one year after its completion, and following the exhaustion or abandonment of all wells the Lessee shall have the right for a period of one year to resume the payment of delay rental or commence operations for another well. Upon the resumption of payment of rentals the provisions hereof governing such payment and the effect thereof shall continue in force as though they had not been interrupted.

5. All moneys coming due hereunder shall be paid or tendered to Name Above
 direct, or by check payable to his (or her) order mailed to Address Above

and no default shall be declared against the Lessee by the Lessor for failure of the Lessee to make any payment or perform any conditions provided for herein unless the Lessee shall refuse or neglect to pay or perform the same for ten days after having received written notice by registered mail from the Lessor of his intention to declare such default.

6. Lessor reserves 200,000 cubic feet of gas per annum for domestic use, to be taken through his own appliances at any producing gas well, and agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessor further covenants and agrees that his taking and use of gas shall be wholly at his own risk, the Lessee not to be held liable for any accident or damage caused thereby, nor shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use.

~~7. Lessee shall have the right to use any formation underlying the leased premises for the storage of gas and shall have all rights and rights-of-way necessary to store and produce such stored gas. As full payment for such storage rights, the Lessee shall pay to the Lessor a rental at the rate of _____ per acre per year, while the premises are so used, and so long as the storage payment is made, all provisions of this lease shall remain in full effect.~~

~~8. Lessor further grants to the Lessee, his heirs and assigns, the right to unitize this lease with other leases to form a drilling unit or units according to the rules and regulations which may be adopted for the proper development and conservation of the field. In the event this lease is so unitized, the Lessor agrees to accept, in lieu of the royalty hereinbefore recited, such proportion of the royalty above provided, as the acreage covered by this lease bears to the total acreage comprising the unit.~~

9. If said Lessor owns a less interest in the above described land than the undivided fee simple estate therein, then the royalties and rentals herein provided shall be paid the Lessor only in the proportion which his interest bears to the whole and undivided fee.

10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, gas, oil and water produced on said land for its operations thereon, except water from wells of Lessor. Lessee shall also have the right at any time to remove all or any part of the machinery, fixtures or structures placed on said premises, including the right to draw and remove casing. Lessee shall pay for damages caused by its operations to growing crops on said lands, and, when requested by Lessor, shall bury its pipe lines below plow depth.

11. The interest or estate of either party hereto may be assigned, the privilege of assigning in whole or in part being expressly allowed. In event this lease shall be assigned as to any part or parts of the above described land and the assignee or assignees of such part or parts shall fail or make default in the payment of the proportionate part of the rents due from him or them, such default shall not operate to defeat or affect this lease insofar as it covers a part or parts of said land upon which the said Lessee or any assignee thereof shall make due payment of said rental. No change of ownership in the land or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee and it has been furnished with a written transfer or assignment or a certified copy thereof.

12. At any time, Lessee, its successors or assigns, shall have the right to surrender this lease or any part thereof for cancellation, after which all payments and liabilities hereunder thereafter shall cease and determine, and if the whole is surrendered, then this lease shall become absolutely null and void. This surrender may be made to the Lessor, or if more than one Lessor, then to any one of them, or to the heirs or assigns of any one of them by delivery of a duly executed surrender thereof in person or by mail addressed to the post office address of such person, or by recording a duly executed surrender thereof in the Recorder's office of the County in which the land is located.

13. Lessor hereby warrants and agrees to defend the title to the land herein described and agrees that the Lessee at its option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied, or assessed on or against the above described lands, and in event it exercises such option, it shall be subrogated to the rights of any holder or holders thereof and may reimburse itself by applying any royalty or rentals accruing hereunder to the discharge of any such taxes, mortgages or other liens.

14. It is expressly agreed that if the Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and its terms continue so long as such operations are prosecuted, and if production results therefrom, then as long as production continues. If after the expiration of the term of this lease production from the leased premises shall cease from any cause, this lease shall not terminate provided Lessee resumes operations within sixty days from such cessation, and this lease shall remain in force during the prosecution of such operations, and, if production results therefrom, then as long as oil or gas is produced in paying quantities.

09/15/2023



State of West Virginia

Department of Mines
Oil and Gas Division

Charleston 25305

DATE October 25, 1982

Mr. Homer H. Dougherty
Linden Route, Box 3A
Looneyville, WV 25259

47-087-3656

PERMIT NO.:

COMPANY Allegheny & Western Energy Co.

FARM: Jarrett E. Kee

WELL NO.: J.Kee #2

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 can not be released at this time.

Very truly yours,

Sarah Sheer

09/15/2023



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 087-3656 (8-17-82)

FARM & WELL NO Jarrett E. Kee #2

DIST. & COUNTY Wayne - 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. v. B.B.
Administrator-Oil & Gas Division

October 1, 1985
DATE

1.0 API well number: (If not available, leave blank. 14 digits.)	47-087- ³⁶⁵⁶ 2656			
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>5,355</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> Name		<u>N/A</u> Seller Code	
	<u>P. O. Box 2587</u> Street			
	<u>Charleston,</u> City	<u>WV</u> State	<u>25329</u> 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> County	<u>WV</u> State		
(b) For OCS wells:	<u>N/A</u> 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. Kee #2</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> Name		<u>039329</u> Buyer Code	
(b) Date of the contract:	_____ Mo. Day Yr.			
(c) Estimated annual production:	<u>36</u> 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.)	<u>5.348</u>	<u>0.0080</u>	-----	<u>5.356</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	<u>5.348</u>	<u>0.0080</u>	-----	<u>5.356</u>
9.0 Person responsible for this application:	<u>Roland C. Baer, Jr.</u> Name		<u>Executive V.P.</u> Title	
Agency Use Only Date Received by Juris. Agency <u>SEP 10 1982</u> Date Received by FERC	<u>[Signature]</u> Signature		<u>(304) 343-4327</u> Phone Number	
	<u>September 17, 1982</u> Date Application is Completed			

PARTICIPANTS:

DATE: JAN 28 1983

BUYER-SELLER CODE

WELL OPERATOR: Allegheny & Western Energy Corp.

N/A

FIRST PURCHASER: Roaring Fork Gas Corp.

039329

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
92 0920 -107-087 = 3656
 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. 7048.0 C
- 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: 8-23-82 Date completed 8-28-82 Deepened _____
- (5) Production Depth: 3222 - 4535
- (5) Production Formation: Devonian Shale (Brown/Marcellus)
- (5) Final Open Flow: 220 MCF
- (5) After Frac. R. P. 1050# 24hrs.
- (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 09/15/2023
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL AND GAS DIVISION

Date September 17, 1982

Operator's Well No J. Kee #2
API Well No 47 - 087 **3656**
State WV **2656**

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 790'
watershed Flat Fork

GAS PURCHASER Roaring Fork Gas Corp.

ADDRESS P.O. Box 3752
Charleston, WV 25337

Dist Harper County Roane Walton 7.5

Gas Purchase Contract No N/A

Meter Chart Code N/A

Date of Contract N/A

* * * * *

Date surface drilling began: August 23, 1982

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

Bottom Hole Pressure: 1,148 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)(1) or (3)(1)(A) has been filed, or as indicated by the report described in subparagraph (3)(1)(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.C. Baer, Jr.

STATE OF WEST VIRGINIA,

COUNTY OF Kanawha, TO WIT

I, Debra (Rollyson) Walker 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 17th day of September, 19 82 has acknowledged the same before me, in my county aforesaid

Given under my hand and official seal this 17th day of September, 1982.

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

NOTARIAL SEAL,

Debra (Rollyson) Walker
Notary Public

09/15/2023

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

Date 9-17- 19 82

Operator's Well No. J. Kee#2

API Well No. 47 - 087 - 3656
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.) 107 Section of NGPA N/A Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Name Roland C. Baer, Jr. Title Executive V.P.
Signature [Signature]
P.O. Box 2587
Street or P.O. Box
City Charleston, WV 25329 State (Zip Code)
Area Code (304) Phone Number 343-4327

(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); 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

SEP 20 1982

[Signature]
Director

Date received by
Jurisdictional Agency

Title _____ 09/15/2023

WELL : J. Kee #2

API : 47-087-3656

SUBJECT : BOTTOM HOLE PRESSURE CALCULATION

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

WHEREAS : $P_1 = \text{WELLHEAD PRESSURE} = \underline{1,050}$

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

$L = \text{DEPTH} = \underline{3,879}$

$T = ^\circ\text{F} + 460^\circ = \underline{554}$

$$x = \frac{G \times L}{53.34 \times T} = \frac{2,645}{29,550} = \underline{.0895}$$

CALCULATION :

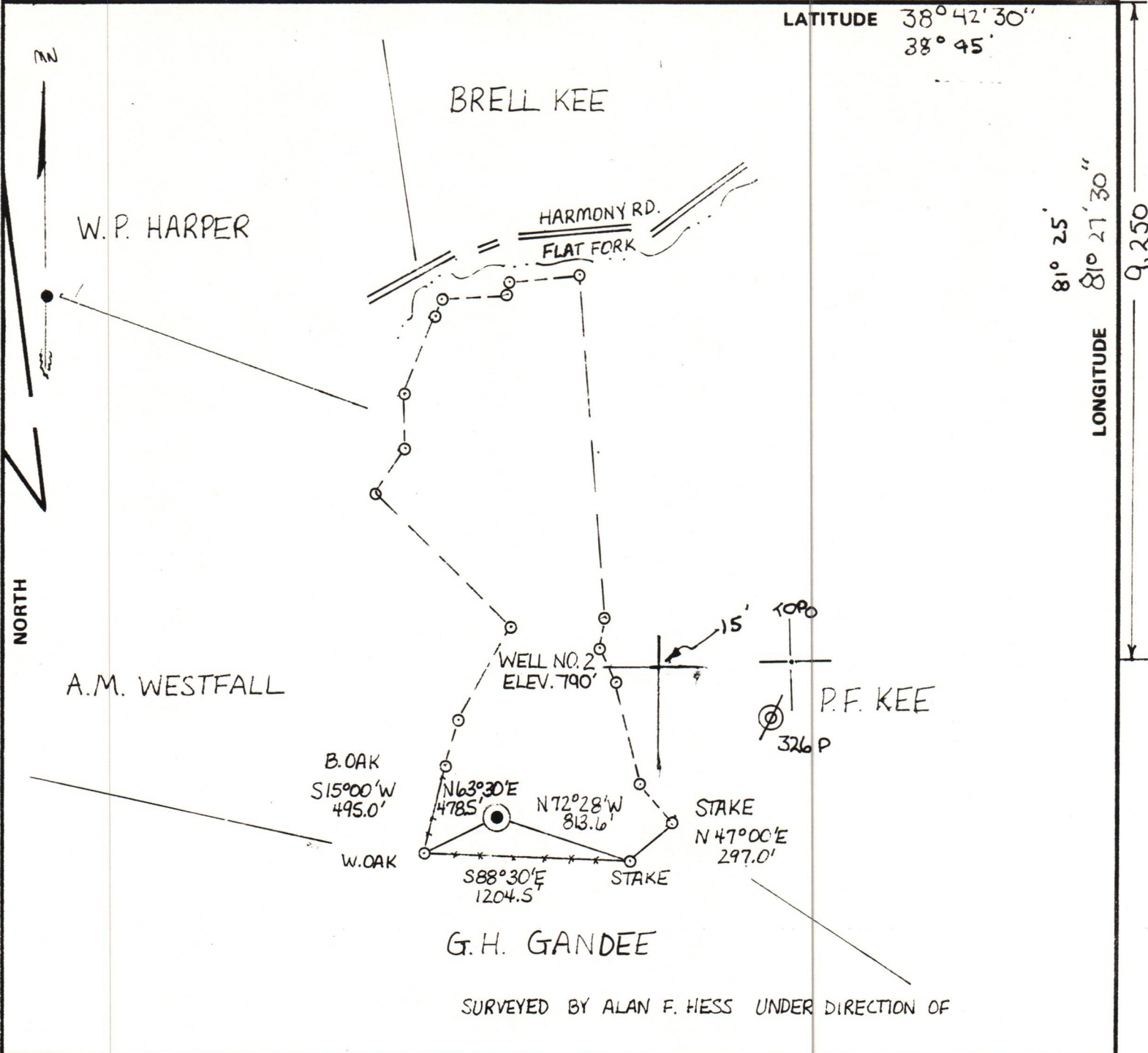
$$BHP = P_1 + P_1 (e^x - 1)$$

$$BHP = \underline{1,050} + \underline{1,050} (e^{\underline{.0895}} - 1)$$

$$BHP = \underline{1,050} + \underline{1,050} (\underline{1.0936} - 1)$$

$$BHP = \underline{1,050} + \underline{98} \text{ OR } \underline{\underline{1,148}}$$

09/15/2023



FILE NO. J. KEE NO. 2
 DRAWING NO. _____
 SCALE 1" = 825
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. ELEV. 797
GANDEEVILLE

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) J. Z. Shuck
 R.P.E. 4596 L.L.S. _____

PLACE SEAL HERE

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



DATE AUGUST 1, 19 82
 OPERATOR'S WELL NO. J. KEE NO. 2
 API WELL NO. _____
47 - 087 - 3656
 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 790' WATER SHED FLAT FORK
 DISTRICT HARPER COUNTY ROANE
 QUADRANGLE WALTON
 SURFACE OWNER JARRETT ELLIS KEE ACREAGE 82.5
 OIL & GAS ROYALTY OWNER JARRETT ELLIS KEE LEASE ACREAGE 82.5 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 BROWN SHALE ESTIMATED DEPTH 5355
 WELL OPERATOR ALLEGHENY & WESTERN DESIGNATED AGENT ROLAND BAER
 ADDRESS P.O. BOX 2587 ADDRESS P.O. BOX 2587
CHARLESTON, WV CHARLESTON, WV