



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

NOV 05 1982

OIL & GAS DIVISION

DEPT. OF MINES

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE October 27, 1982

Surface Owner Lenore Gulley
Address Grantsville, WV 26147

Company Francis E. Cain
Address Bigbend, WV 26136

Mineral Owner Matilda Johnson Heirs
Address Grantsville, WV 26147

Farm Lenore Gulley Acres 24.19

Coal Owner none

Location (waters) Little Kanawha

Address _____

Well No. 1 Elevation 920'

Coal Operator none

District Center County Calhoun

Address _____

Quadrangle Grantsville

INSPECTOR
TO BE NOTIFIED Deo Mace

ADDRESS Sandridge, WV

PHONE 655-7398

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated April 1 1982 by Lenore Gulley etal made to Francis E. Cain and recorded on the 5th day of May 1982, in Calhoun County, Book 080 Page 513

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,
Francis E. Cain
(Sign Name) Francis E. Cain
Well Operator

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

P. O. Box 80
Street
Bigbend
City or Town
WV 26136
State

12/01/2023

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-013- 3512 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Francis E. Cain

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Francis E. Cain _____ NAME Same _____
 ADDRESS P. O. Box 80, Bigbend, WV 26136 _____ ADDRESS _____
 TELEPHONE 354-7812 _____ TELEPHONE _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2400' _____ ROTARY _____ CABLE TOOLS X _____
 PROPOSED GEOLOGICAL FORMATION: Berea _____
 TYPE OF WELL: OIL _____ GAS X _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 10 3/4"	285'	285'	118
9 - 5/8			
8 - 5/8 8"	1020'		
7	1675'	1675'	50
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 200' FEET _____ SALT WATER 1600' FEET _____
 APPROXIMATE COAL DEPTHS --- _____
 IS COAL BEING MINED IN THE AREA? --- BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title



DATE October 27, 1982

WELL NO. 1

State of West Virginia

API NO. 47 - 013 - 3512

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Francis E. Cain (Cain O&G)

DESIGNATED AGENT Francis E. Cain

Address P. O. Box 80, Bigbend, WV

Address Same

Telephone 354-7812

Telephone Same

LANDOWNER Lenore Gulley

SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Francis E. Cain (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 10-29-82 (Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure See comment (A)

Structure Diversion Ditches (1)

Spacing _____

Material Earthen

Page Ref. Manual _____

Page Ref. Manual 2-12

Structure Drainage Ditch (B)

Structure Rip Rap (2)

Spacing _____

Material Rock

Page Ref. Manual 2-12

Page Ref. Manual 2-9

Structure _____ (C)

Structure _____ (3)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5

Lime _____ Tons/acre
or correct to pH 6.5

Fertilizer 400 lbs/acre
(10-20-20 or equivalent)

Fertilizer 400 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed* Orchard Grass 15 lbs/acre

Seed* Orchard Grass 15 lbs/acre

Blue Grass 13 lbs/acre

Blue Grass 15 lbs/acre

White Clover 2 lbs/acre

White Clover 2 lbs/acre

12/01/2023

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

PLAN PREPARED BY Francis E. Cain

ADDRESS P. O. Box 80, Bigbend, WV

26136

PHONE NO. 354-7812

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

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Grantsville

LEGEND

Well Site ⊕

Access Road ———

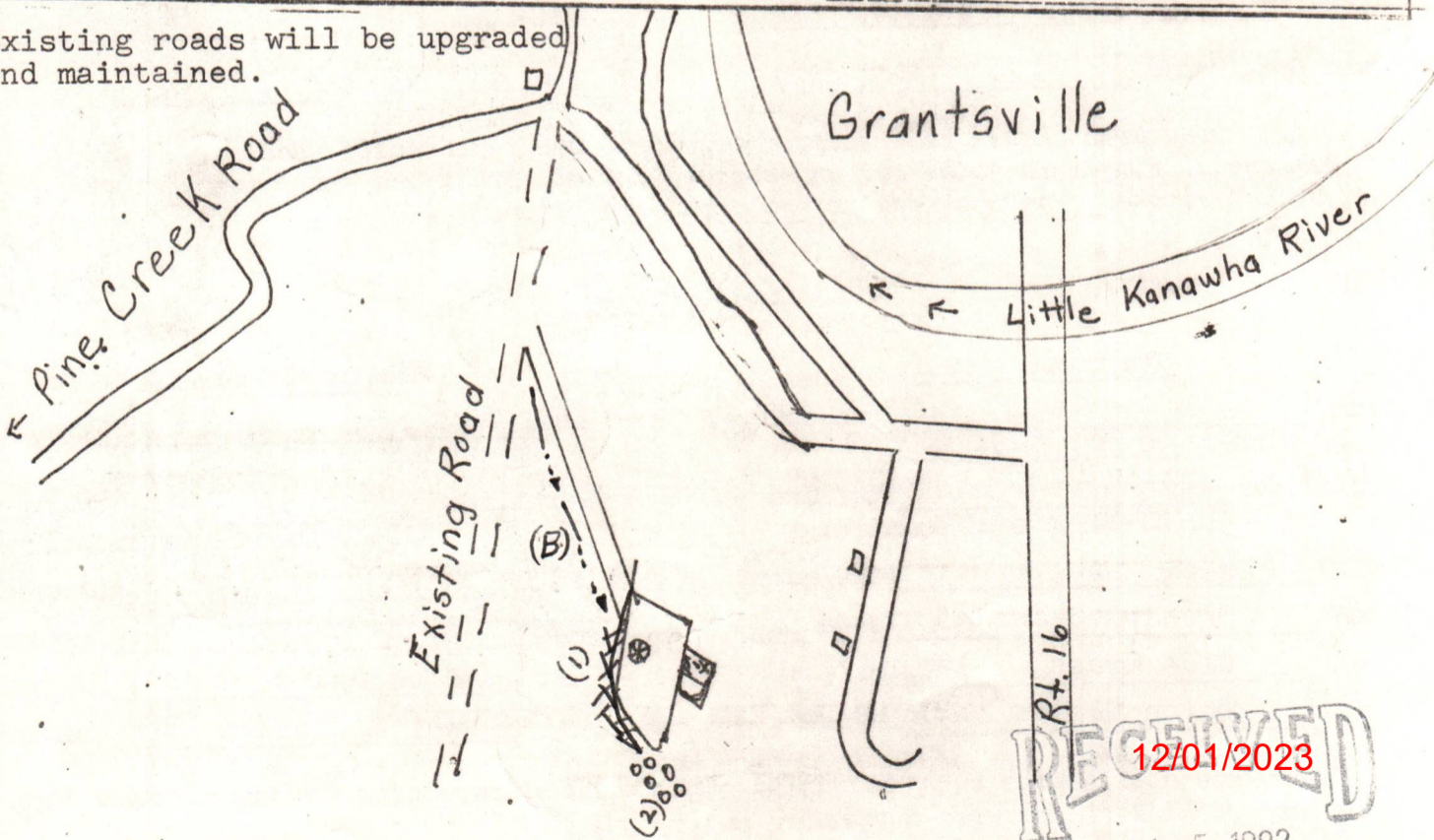
WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, well site, 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	—x—x—x—x—	Wet spot	⊕
Planned fence	—/—/—/—/—	Building	■
Stream	~~~~~	Drain pipe	○→○→○→
Open ditch	→→→→→	Waterway	⇄⇄⇄⇄

Existing roads will be upgraded and maintained.



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DEPT. OF MINES



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Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) **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 the receipt of this Application by the Department.**

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

WAIVER

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 regulations.

12/01/2023

Date: _____, 19____

By _____

Its _____

THIS AGREEMENT, Made the first day of April, 1982, between
1/4= Lemore Gulley, her husband J. P. Gulley; P.O.Box 92, Grantsville, WV 26147
1/4= J. C. Starcher, his wife Ruth Starcher, 2809 Soyer St., Parkersburg, WV 26101
1/8= Imogene C. Haymaker, her husband Francis L. Haymaker, Jr., Arnoldsburg, WV
1/4= Susie Olive Johnson, Arnoldsburg, WV
1/8= Eleanore Dengler her husband Daniel Dengler, 3620 Mogadore Rd., Mogadore, OH 44266

parties of the first part, hereinafter called the Lessor, and Francis E. Cain
P. O. Box 80, Bigbend, WV 26136, party of the second part, hereinafter called the Lessee.

WITNESSETH, That the said Lessor, for and in consideration of One Dollar to be paid in hand well and truly paid by said Lessee, the receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter contained on the part of the said Lessee, to be paid, kept, and performed, has granted, demised, leased and let and by these presents does grant, demise, lease and let with covenants of quiet possession and sole right to convey unto the said Lessee the following described tract of land, for the sole and only purpose and with the exclusive right of mining and operating thereon for the production of oil and gas, with the right of way over and across said premises to the place or places of mining and operating, together with the right of way to lay pipe lines over and across these premises to and from other wells, and tracts of land as well as to places of operation on these premises for the purpose of carrying oil and gas in pipe lines, of constructing drips, and of building tanks, stations, telephone, telegraph, and electric power lines, and houses for gates, meters and regulators, with all other rights, privileges, appliances, and structures necessary,

incident, or convenient for the operation of these premises and other wells and tracts of land as aforesaid, which tract is land is situate in Center District, Calhoun County, and State of West Virginia, on the waters of Little Kanawha

bounded substantially as follows:
On the North by lands now or formerly owned by Clarence Starcher, & Stevens Heirs
On the East by lands now or formerly owned by Board of Education, Rt. 16
On the South by lands now or formerly owned by Herb Smith
On the West by lands now or formerly owned by Stevens Heirs
Containing One hundred twenty (120) acres, more or less, reserving, however, three hundred (300) feet from the building now on the premises, on which no well shall be drilled by either party except by mutual consent.

All of the working interest (7/8ths) of the oil and all of the gas produced under the terms of this lease is hereby granted unto the said Lessee, free from incumbrance and with covenants of general warranty

It is agreed that this lease shall remain in force for the term of One (1) year from date lease completed and as long thereafter as the said land is operated by the Lessee in search for or the production of oil or gas, with the extension of term by payment of rental as hereinafter set forth.

In Consideration of the Premises the said Lessee covenants and agrees: 1st—To deliver to the credit of the Lessor, heirs or assigns, free of cost, in the pipe line to which said Lessee may connect its wells, a royalty of the equal one-eighth (1/8th) part of all oil produced and saved from the leased premises; 2nd—To pay a royalty at the rate of the equal one-eighth (1/8th) of the proceeds from the sale of all gas produced from and marketed and sold off said leased premises at the field price at the well paid in the vicinity of the premises.

Said Lessee shall not be required in any event to increase the rate of said gas well payments or said royalty of oil or the delay rental payments hereinafter provided by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved, or conveyed by said Lessor or predecessors in title or otherwise; and if the Lessor does not have title to all the oil and gas in the leased premises, there shall be refunded such part of all delay rental and gas well payments made by the Lessee under this lease, as shall be proportionate to the outstanding title, and payments thereafter to be made for such purpose shall be reduced in the same proportion.

The leased premises may be fully and freely used by the Lessor for farming purposes, excepting such parts as are used by the Lessee in operating hereunder. The said Lessee covenants and agrees to pay a rental at the rate of \$5.00 (five) /acre (\$300 semi-Annual \$5.00) dollars

Quarterly in advance, beginning date lease signed, until a well yielding royalty to the lessor is drilled on the leased premises; any rental paid for time beyond the completion of a gas well shall be credited upon the first royalty due upon the same; upon the drilling of a well yielding no royalty to the Lessor, the Lessee may continue to hold the leased premises for such further term as the Lessee may desire upon the payment of said rental, not exceeding the term of five years after the expiration of the term above mentioned and as long thereafter as oil or gas is produced.

It is agreed that said Lessee may drill or not drill on said land, as it may elect, and that the consideration and rentals paid and to be paid constitute adequate compensation for such privilege.

All payments hereunder may be made direct to the Lessor, or deposited to credit or the credit of respective heirs or assigns in proportionate share as indicated above, or in any of said methods to

who is hereby appointed agent to receive and receipt for the same.

Lessor may lay a one-inch line to any gas well on said land or to second party's pipe line leading from said well to market, to take gas produced from said well for their own use for heat and light in one dwelling house on said land at Lessor's own risk, subject to the use, operation, pumping and right of abandonment of the well and pipe line by the Lessee; the first two hundred thousand cubic feet of gas so taken in each year shall be free, but all gas in excess of two hundred thousand cubic feet taken in each year shall be paid for by the Lessor at the current local rates of the Lessee, and measurement and regulation shall be by meter and regulators set on the well or line. This privilege is upon condition that the Lessor shall use said gas with economy, in safe and proper pipes and appliances, and shall subscribe to and be bound by the reasonable rules and regulations of the Lessee published at such time relating to such use of gas.

Lessee agrees not to enter lease through or over Johnson Street,
Lessee agrees not to sub-lease, without consent of Lessors.
Lessee agrees to pay rental semi-annually & royalty quarterly.

If the Lessee injures the Lessor's growing crops or fences it will pay the Lessor reasonable damages therefor.

It is agreed that said Lessee is to have the privilege of using sufficient water and gas from the said premises to run all machinery necessary for drilling and operating thereon, and at any time to remove all machinery and fixtures placed on said premises; and further, upon the payment of one dollar at any time, by said Lessee, to the Lessor, or to the above named agent, said Lessee shall have the right to surrender this lease to them or either of them for cancellation, after which all payments and liabilities thereafter to accrue under and by virtue of its terms shall cease and determine, and this lease become absolutely null and void. Lessor agrees that the recordation of a deed of surrender in the proper county, and the mailing in the Post Office of a check payable as above provided, for said last mentioned sum and all amounts then due hereunder, shall be accepted as full and legal surrender of the Lessee's rights under this lease.

This lease may be pooled with other leases to make up a block of 300 acres for the provision of drilling a deep hole from the formation known as the Engin Sand. All terms, conditions, limitations and covenants between the parties hereto shall extend to their respective heirs, successors, personal representatives and assigns.

IN WITNESS WHEREOF, the parties to this agreement have hereunto set their hands.

Lemore Gulley
J.P. Gulley
J.C. Starcher
Ruth S. Starcher
Imogene C. Haymaker
Francis L. Haymaker Jr.
Susie Olive Johnson

Francis E. Cain

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12/01/2023

DEPT. OF MINES

Lease prepared by Francis E. Cain, Bigbend, WV 26136

STATE OF WEST VIRGINIA,

County of Calhoun } To-Wit: Sharron Sue Williams, Notary Public of said county of Calhoun
I, Sharron Sue Williams, do certify that Leonore Gulley and J. P. Gulley her husband signed to the within writing, bearing date the 2nd day of April, 1982
she has acknowledged the same before me in my said county.
Given under my hand this 2nd day of April, 1982

Sharron Sue Williams

Notary Public

My Commission expires December 11, 1989

STATE OF WEST VIRGINIA,

County of Calhoun } To-Wit: Sharron Sue Williams, Notary Public of said county of Calhoun
I, Sharron Sue Williams, do certify that Francis E. Cain and his wife signed to the within writing, bearing date the 2nd day of April, 1982
she has acknowledged the same before me in my said county.
Given under my hand this 2nd day of April, 1982

Sharron Sue Williams

Notary Public

My Commission expires December 11, 1989

STATE OF WEST VIRGINIA,

County of Calhoun } To-Wit: Sharron Sue Williams, Notary Public of said county of Calhoun
I, Sharron Sue Williams, do certify that Imogene C. Haymaker and Francis L. Haymaker Jr. her husband signed to the within writing, bearing date the 2nd day of April, 1982
she has acknowledged the same before me in my said county.
Given under my hand this 2nd day of April, 1982

Sharron Sue Williams

Notary Public

My Commission expires December 11, 1989

STATE OF WEST VIRGINIA,

County of Calhoun } To-Wit: Sharron Sue Williams, Notary Public of said county of Calhoun
I, Sharron Sue Williams, do certify that Susie Olive Johnson and her husband signed to the within writing, bearing date the 2nd day of April, 1982
she has acknowledged the same before me in my said county.
Given under my hand this 2nd day of April, 1982

Sharron Sue Williams

Notary Public

My Commission expires December 11, 1989

STATE OF West Virginia

County of Calhoun } To-Wit: Sharron Sue Williams, Notary Public of said county of Calhoun
I, Sharron Sue Williams, do certify that J. C. Starcher and his wife, Ruth Starcher her wife, signed to the within writing, bearing date the 6th day of April, 1982
she has acknowledged the same before me in my said county.
Given under my hand and official notarial seal this 6th day of April, 1982

Sharron Sue Williams

Notary Public

My Commission expires December 11, 1989

NO.	OIL AND GAS LEASE	FROM	TO	Date:	No. Acres:	Rental Due:	Exp. Res:	LOCATION	District	County	Received for Record	Recorded	In Book	Page	MAP LOCATION	Examined by

12/01/2023

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IV-35
(Rev 8-81)

OCT 18 1983

Date Sept. 16, 1983

OIL & GAS DIVISION **State of West Virginia**
DEPT. OF MINES **Department of Mines**
Oil and Gas Division

Operator's _____
Well No. 1
Farm Lenore Gulley
API No. 47 - 013 - 3512

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 ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 920' Watershed Little Kanawha
District: Center County Calhoun Quadrangle Grantsville

COMPANY Francis E. Cain
ADDRESS Bigbend, WV 26136
DESIGNATED AGENT Francis E. Cain
ADDRESS Bigbend, WV 26136
SURFACE OWNER Lenore Gulley
ADDRESS Grantsville, WV
MINERAL RIGHTS OWNER Matilda Johnson Heirs
ADDRESS Grantsville, WV
OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS Sandridge, WV
PERMIT ISSUED July 9, 1983
DRILLING COMMENCED November 23, 1982
DRILLING COMPLETED Sept. 14, 1983

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10 ^{3/4}	295	295	100
9 5/8			
8 5/8	460		
7	894		
5 1/2			
4 1/2	1801	1901	65
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Big Injun Depth 1935 feet
Depth of completed well 1950 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh none feet; Salt 1225 feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1888-1900 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 120 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 212 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth 12/01/2023 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

(Continue on reverse side)

CAL. 3512

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

Water Frac 18,000 sacks sand, 365 bbls water.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock			0	10	
Slate			10	30	
Red Rock			30	90	
Sand			90	125	
Red Rock			125	160	
Slate			160	177	
Sand			177	200	
Slate			200	253	
Red Rock			253	260	
Slate			260	317	
Red Rock			317	350	
Slate			350	395	
Red Rock			395	414	
Sand			414	445	
Red Rock			445	467	
Lime			467	472	
Red Rock			472	545	
Slate			545	575	
Red Rock			575	615	
Slate			615	630	
Sand			630	680	
Red Rock			680	740	
Sand			740	790	
Slate			790	810	
Black Slate			810	820	
Slate			820	830	
Lime			830	892	
Sand			892	1020	
Slate			1020	1045	
Lime			1045	1065	
Sand			1065	1195	
Slate			1195	1200	
Sand			1200	1250	
Slate			1250	1325	
Sand			1325	1350	
Slate			1350	1460	
Sand			1460	1495	
Slate			1495	1520	

(Attach separate sheets as necessary)

Francis E. Cain

Well Operator

By: Francis E. Cain

12/01/2023

Date: Sept. 16, 1983

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."

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
	Sand		1520	1596	
	Lime		1596	1616	
	Sand		1616	1738	1725 Water, sand
	Lime , Little		1738	1763	
	Pencil Cave		1763	1769	
	Big Lime		1769	1842	
	Sand		1842	1935	Gas 1888-1900
	Slate		1935	1968	

(Attach separate sheets as necessary)

Francis E. Cain
Well Operator

By: Francis E. Cain

Date: Sept. 16, 1983

12/01/2023

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."

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

RECEIVED

APR 5 - 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well (KIND)

Permit No. 13-8512

Company Francis Cain

Address _____

Farm Matilda Johnson

Well No. 1

District Center County Cal.

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			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 Co. Spudler

Remarks: 292' of 10" casing cemented to surface.
888' of 7" not cemented.
gas at 1085' - SMALL AMOUNT

3-28-83
DATE

Wes Moore 12/01/2023
DISTRICT WELL INSPECTOR

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

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

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

Drillers' Names _____

Remarks: _____

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

DISTRICT WELL INSPECTOR
12/01/2023

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

DEPT. OF MINES & ENERGY
OFFICE OF THE DISTRICT WELL INSPECTOR

APR 23 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3512

(11-9-82)

Oil or Gas Well _____
(KIND)

Company	Address	Farm	Well No.	District	County	Drilling commenced	Drilling completed	Date shot	Initial open flow	Open flow after tubing	Volume	Rock pressure	Oil	Fresh water	Salt water	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
																Size			Kind of Packer
<u>Francis Cain</u>		<u>Senna Gulley</u>	<u>1</u>	<u>Centu</u>	<u>Galhoun</u>											16			Kind of Packer
																13			
																10			Size of
																8 1/4			
																6 5/8			Depth set
																5 3/16			
																3			Perf. top
																2			Perf. bottom
																Liners Used			Perf. top
																			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Release Reclamation

4-19-86
DATE

Wes Mace
DISTRICT WELL INSPECTOR

12/01/2023

Form 26
2/16/82

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

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

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

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

12/01/2023
DISTRICT WELL INSPECTOR

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-013-3512			
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.)	_____ feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Francis E. Cain Name		Seller Code	
	P. O. Box 80			
	Street	Bigbend,	WV	26136
	City		State	Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Center Field Name			
	Calhoun		WV	
	County		State	
(b) For OCS wells:	NA Area Name		NA Block Number	
	Date of Lease:			
	 Mo. Day Yr.		na OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Lenore Gulley Gas #1			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Name		004228 Buyer Code	
(b) Date of the contract:	 Mo. Day Yr.			
(c) Estimated annual production:	_____ 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.)	2.825	.42	.---	2.867
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.825	.42	.---	2.867
9.0 Person responsible for the application:	Francis E. Cain Owner & Operator			
Agency Use Only	Name		Title	
Date Received by Juris. Agency	<i>Francis E. Cain</i> Signature			
Date Received by FERC	Oct 7, 1983 Date Application is Completed		304-354-7812 Phone Number	

FT7900806:2 2

12/01/2023

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

OCT 1 3 1983

12/01/2023

JAN 9 1984

PARTICIPANTS:

DATE: _____

BUYER-SELLER CODE

WELL OPERATOR: Francis E. Cain

FIRST PURCHASER: Consolidated Gas Supply

004228

OTHER: _____

1000' Radius OK

~~* Details of production not shown~~

~~* No D.H.T.~~

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
831012-103-013-3512
 Use Above File Number on all Communications
 Relating to Determination of this Well
Handwritten signature

APPROVED *[Signature]*

MAY 10 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items completed - Not 2.0 + 8.0 c
- 2. IV-1 Agent Francis E. Cain
- 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: 11-23-82 Date completed 9-14-83 Deepened
- (5) Production Depth: 1888-1900
- (5) Production Formation: Big Injun
- (5) Final Open Flow: 120 MCF
- (5) After Frac. R. P. 212# 48 hrs.
- (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? _____

12/01/2023

Date oct. 7 19 83

Operators Well No. 1

API Well No. 47 013 3512

Previous File No. _____

STATE APPLICATION FOR WELL CLASSIFICATION

Well Operator: Francis E. Cain Designated Agent: Same

Address: P. O. Box 80, Bigbend, WV 26136

Gas Purchase Contract No.: _____ Date _____ Address: _____

Meter Chart Code _____

Name of First Purchaser: Consolidated Gas

Address: Clarksburg, WV

FERC Seller Code _____ FERC Buyer Code 004228

Type of Determination being sought:

(1) Section of NGPA 103 Category Code _____

Name Francis E. Cain Title Agent & Operator

Signature Francis E. Cain

Address P. O. Box 80

City Bigbend State WV Zip Code 26136

Phone Number 304 354-7812

(Certificate of Proof of Service to Purchaser)

Certified return mail Oct. 7, 1983.

(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

12/01/2023

OCT 12 1983

Date received by _____
Jurisdictional Agency

Director _____
By _____
Title _____

Lenore Gulley

47-013-3512

Bottom Hole Pressure

$$\text{BHP} = P_1 + P_2 [e \times -1]$$

$$\text{BHP} = 212 + 212 \left[e = \frac{1894 \times .77}{53.34 \times (75 + 460)} -1 \right]$$

$$\text{BHP} = 212 + 212 \left[e \frac{1458.38}{28537} -1 \right]$$

$$\text{BHP} = 212 + 212 [e .0511 -1]$$

$$\text{BHP} = 212 + 212 [1.0524 -1]$$

$$\text{BHP} = 212 + 11.11$$

$$\text{BHP} = 223$$

12/01/2023

Date Oct. 7, 1983

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

Operator's Well No. 1

API Well No. 47 - 013 - 3512
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Francis E. Cain
ADDRESS P. O. Box 80,
Bigbend, WV 26136

WELL OPERATOR Francis E. Cain
ADDRESS P. O. Box 80
Bigbend, WV 26136

LOCATION: Elevation 920'
Watershed Little Kanawha
Dist. Center County Calhoun Quad. Grantsville

GAS PURCHASER Caonsolidated Gas
ADDRESS Clarksburg, WV

Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

* * * * *

Date surface drilling was begun: November 23, 1982

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

Will be supplied at a later date.

AFFIDAVIT

I, Francis E. Cain, 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.

Francis E. Cain

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

I, Sharron Sue Williams, a Notary Public in and for the state and county aforesaid, do certify that Francis E. Cain, whose name is signed to the writing above, bearing date the 7th day of Oct., 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 7th day of Oct., 1983.

My term of office expires on the 11th day of Dec., 1989.

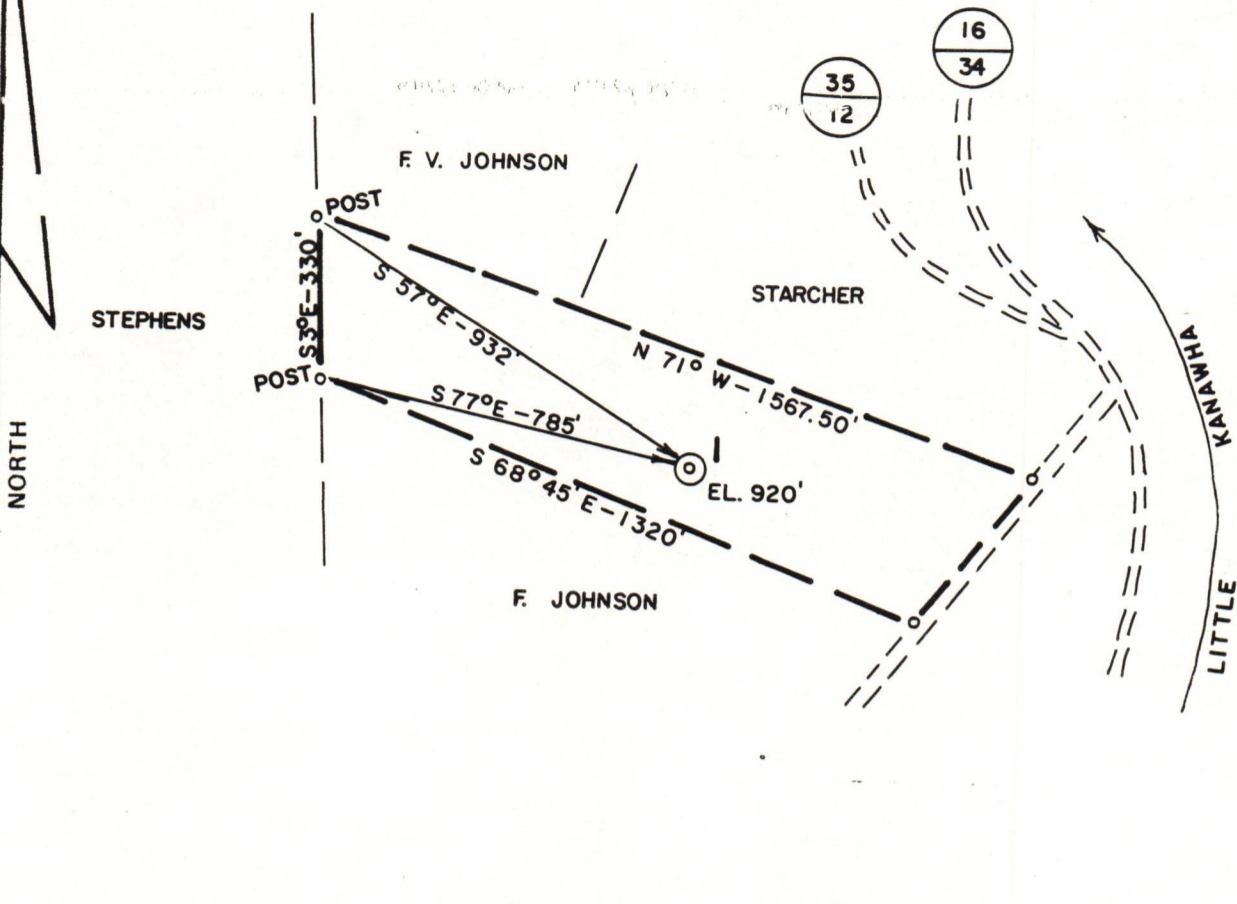
[NOTARIAL SEAL]

Sharron Sue Williams
Notary Public

12/01/2023

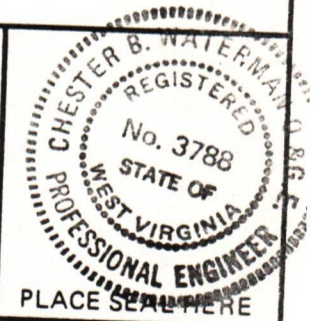
4620 WEST
 LATITUDE $38^{\circ} 57' 30''$
 $39^{\circ} 00'$

LONGITUDE $81^{\circ} 05' 00''$



FILE NO. **82-391**
 DRAWING NO. _____
 SCALE **1" = 400'**
 MINIMUM DEGREE OF ACCURACY **1/200'**
 PROVEN SOURCE OF ELEVATION **ROUTE 16 (706')**

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) *Chester B. Waterman*
 R.P.E. **3788** L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE **10/20**, 19 **82**
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - **013** - **3512**
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION **920** WATER SHED _____ DISTRICT **CENTER** COUNTY **LITTLE KANAWHA**
 QUADRANGLE **GRANTSVILLE** COUNTY **CALHOUN**
 SURFACE OWNER **LENORE GULLEY** ACREAGE **24.19**
 OIL & GAS ROYALTY OWNER **MATILDA JOHNSON HEIRS** LEASE NO. _____ LEASE ACREAGE **24.19**

12/01/2023

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 **BEREA** ESTIMATED DEPTH **2400'**
 WELL OPERATOR **CAIN OIL & GAS** DESIGNATED AGENT **FRANCIS CAIN**
 ADDRESS **BOX 80** ADDRESS **SAME**
BIG BEND, WV 26136