



1) Date: Nov. 2, 19 82
2) Operator's Well No. J-684
3) API Well No. 47 State 085 County 5986 Permit

DRILLING CONTRACTOR:
S.W. Jack Drilling CO.
Box 48
Buckhannon, WV 26201

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1000 Watershed: North Fork Hughes River
District: Clay County: Ritchie Quadrangle: Pennsboro
- 6) WELL OPERATOR J&J Enterprises, Inc. 11) DESIGNATED AGENT Richard M. Reddecliff
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Dolph Hickman 12) COAL OPERATOR None
Address Rt. # 2 Address
Pennsboro, WV 26415
- 8) SURFACE OWNER Dolph Hickman 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Rt. # 2 Name Dolph Hickman
Pennsboro, WV 26415 Address Rt. # 2
Pennsboro, WV 26415
- 9) FIELD SALE (IF MADE) TO: Unknown 14) COAL LESSEE WITH DECLARATION ON RECORD:
Address Name None
Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Samuel N. Hersman
Address P.O. Box 66
Smithville, WV 26178
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Alexander
- 17) Estimated depth of completed well, 5500 feet
- 18) Approximate water strata depths: Fresh, 230 feet; salt, 0 feet.
- 19) Approximate coal seam depths: 350, 850 Is coal being mined in the area? Yes / No

RECEIVED
NOV 03 1982
OIL & GAS DIVISION
DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1200	1200	To surface	Sizes
Coal	8 5/8	ERW	23	x		1200	1200	To surface	
Intermediate									Depths set by Rule 15.01
Production	4 1/2	J-55	10.5	x		5450	5450	175 sks.	
Tubing									Perforations:
Liners									Top Bottom

- 21) EXTRACTION RIGHTS
Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) 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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Linda S. Campbell
My Commission Expires 10/10/89

Signed: [Signature]
Its: Designated Agent

OFFICE USE ONLY
Permit number 47-085-5986
DRILLING PERMIT
November 9, 1982
Date 04/05/2024

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires July 9, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.
Bond: Blanket Agent: [Signature] Plat: [Signature] Casing Fee 1132
Administrator, Office of Oil and Gas

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 04/05/2024 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.

Date: _____, 19____

By _____

Its _____

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
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 - (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.

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WAIVER

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04/05/2024

Date: _____, 19____

By _____

Its _____

NOTE: Keep one copy of this permit posted at the drilling location



1) Date: June 1, 1983
 2) Operator's Well No. J-684
 3) API Well No. 47 085 5986-REN.
 State County Permit

DRILLING CONTRACTOR:

S.W. Jack Drilling CO.
 Box 48
 Buckhannon, WV 26201

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

OIL AND GAS WELL PERMIT APPLICATION

RENEWAL - OLD NO. 5986

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1000 Watershed: North Fork Hughes River
 District: Clay County: Ritchie Quadrangle: Pennsboro
- 6) WELL OPERATOR J&J Enterprises, Inc. 11) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
 Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Dolph Hickman 12) COAL OPERATOR None
 Address Rt. # 2 Address
 Pennsboro, WV 26415
- 8) SURFACE OWNER Dolph Hickman 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Rt. # 2 Name Dolph Hickman
 Pennsboro, WV 26415 Address Rt. # 2
 Pennsboro, WV 26415
 Acreage 63.75 Name
 Address
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address Unknown Name
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name None
 Name Smauel N. Hersman Address
 Address P.O. Box 66
 Smithville, WV 26178
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Alexander
- 17) Estimated depth of completed well, 5500 feet
 18) Approximate water strata depths: Fresh, 230 feet; salt, 0 feet.
 19) Approximate coal seam depths: 350, 850 Is coal being mined in the area? Yes / No /

RECEIVED
 JUN - 2 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	113/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1200	1200	To surface	as req by
Coal	8 5/8	ERW	23	x		1200	1200	To surface	Sizes Rule 15-05
Intermediate									
Production	4 1/2	J-55	10.5	x		5450	5450	175 sks.	Depths set as req by Rule 15-01
Tubing									
Liners									Perforations: Top Bottom

21) EXTRACTION RIGHTS

- Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

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If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Linda S. Confield
 My Commission Expires October 16, 1989

Signed: Richard A. Reddecliff
 Its: Designated Agent

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-5986-REN.

Date June 23, 1983

04/05/2024


This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)


Permit expires February 23, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: 4393	Agent: ok	Plat: [Signature]	Casing: [Signature]	Fee: 1254
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Administrator, Office of Oil and Gas

74
5

Well Site 



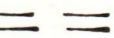







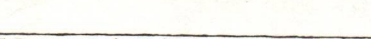

Access Road 



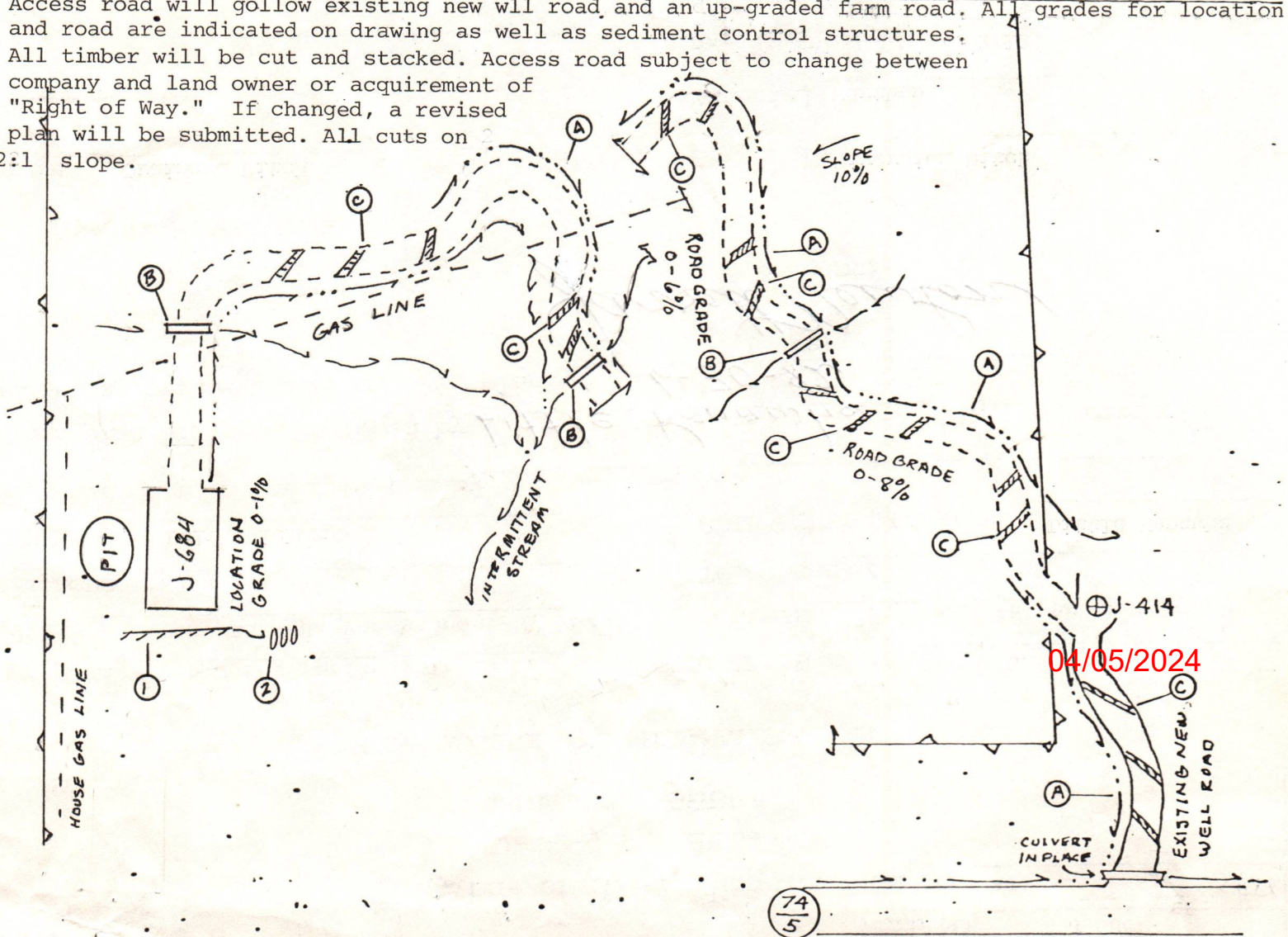
WELL SITE PLAN

Plan to include well location, existing access road, roads to be constructed, well site
 lining pits and necessary structures numbered or lettered to correspond with the fig
 of this plan. Include all natural drainage.

LEGEND

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

Access road will follow existing new well road, and an up-graded farm road. All grades for location
 and road are indicated on drawing as well as sediment control structures.
 All timber will be cut and stacked. Access road subject to change between
 company and land owner or acquirement of
 "Right of Way." If changed, a revised
 plan will be submitted. All cuts on
 2:1 slope.



State of West Virginia

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

DESIGNATED AGENT Harry L. Barnett

COMPANY NAME
P. O. Box 48 Buckhannon, WV 26201

Telephone 472-9403

OWNER Dolph Hickman

SOIL CONS. DISTRICT Little Kanawha

Robert Rogers (Agent)

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

6-30-82 (Date)

Janet Morrison
(SCD Agent)

ACCESS ROAD

(A) Structure Drainage Ditch

Ref. Manual 2:10

Structure Culverts

(B)

Ref. Manual 2:10

Structure Cross Drains

(C)

Structure 80' 400'

Ref. Manual 2:1

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

REVEGETATION

Treatment Area I

3 Tons/acre correct to pH

600 lbs/acre Fertilizer

(10-20-20 or equivalent)

2 Tons/acre HAY

45 lbs/acre Kentucky 31 Rescue

10 lbs/acre Annual Rye

lbs/acre

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

ES: Mass request landowners' cooperation to protect new sections for one growing season. with separate sheets as

Treatment Area II

3 Tons/acre Lime or correct to pH

600 lbs/acre Fertilizer

(10-20-20 or equivalent)

2 Tons/acre Mulch HAY

45 lbs/acre Seed* Kentucky 31 Rescue

10 lbs/acre Annual Rye

lbs/acre

incubate all legumes such as vetch, trefoil and clovers with the proper bacterium.

PLAN PREPARED BY Ed Summerfield

ADDRESS

P. O. Box 48

Buckhannon, WV 26201
472-9403

683
684

OIL AND GAS LEASE

AGREEMENT, made and entered into this 13TH day of JANUARY A. D. 1982
by and between DELPH HICKMAN AND VERAEL HICKMAN

of _____ party of the first part, hereinafter called Lessor (whether one or more),
and SHELLCO AND SHELLCO, INC. 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 _____ District, _____ Township, County of PUTNAM, State of WEST VIRGINIA, and described as follows, to-wit: Bounded on the

NORTH by lands of LEWIS HURST TRACT - PRESENTLY UNDEVELOPED

EAST by lands of LANE TRACT AND HICKMAN TRACT

SOUTH by lands of BOSTON RD. RD.

WEST by lands of LANE TRACT

Containing 63.75 acres, more or less and being the same land conveyed to lessor by _____ and _____ by deed dated _____

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 2 (TWO) 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 produced therefrom.~~

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 the equal one-eighth (1/8) part of

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 JANUARY 31ST, 1982, unless Lessee pays thereafter a rental of \$ 350.00 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 DELPH AND VERAEL HICKMAN direct, or by check payable to his (or her) order mailed to RT#2 BOND, P.O. BOX 26415 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.

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.

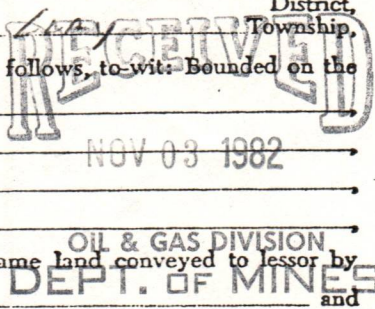
10. No well may be drilled nearer than 200 feet to the house or barn now on said premises without the written consent of Lessor. Lessee shall have and enjoy all rights and privileges necessary and convenient for the proper use and development of this lease, and shall have the right to use, free of cost, 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 _____ 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.



NOV 03 1982

04/05/2024

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:

Thomas B. Kearns _____ (SEAL)
Thomas B. Kearns _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)

Rolph Hickman _____ (SEAL)
Verbel B. Hickman _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)
 _____ (SEAL)

WEST VIRGINIA ACKNOWLEDGMENT

STATE OF WEST VIRGINIA
 COUNTY OF Upshur } To-wit:

I, Rand J. Taylor a Notary Public of said County, do hereby certify that
Rolph Hickman and Verbel Hickman
 whose name is signed to the within writing bearing date the 20th day of August, 1981
 has this day acknowledged the same before me in my said County.
 Given under my hand this 20th day of August, 1981
Rand J. Taylor
 Notary Public

My Commission expires 3/24/91

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.
 Given under my hand this _____ day of _____, 19____

 Notary Public

My Commission expires _____

THIS INSTRUMENT PREPARED BY;

S & S, Inc.

OHIO ACKNOWLEDGMENT

STATE OF OHIO, } SS.
 COUNTY OF _____

Before me, a Notary Public in and for said county, personally appeared the above named _____
 _____ 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

Filed and admitted to record in the office
 of the Clerk of the County Commission of Ritchie
 County, W. Va. **AUG 24 1981**

19____ at 1:45 o'clock P. M.
 Recorded in _____
 Book No. 131 Page 127
 Tested: _____
 Clerk

RECORDING DATA:

Term _____
 County _____ State _____
 Location _____
 Acres _____
 Date _____, 19____
 TO _____
 Oil and Gas Lease
 04/05/2024
 Globe Form 100 - Rev.
 (Standard Ohio & W. Va.)

Ritchie County Commission Clerk's Office, ----- August 24th, 19 81 ----- at 1:45 o'clock P. M.

The foregoing writing, with the certificate of acknowledgment thereto, was this day admitted to record in said office.

Teste: *Linda B. Mang* -----, Clerk

04/05/2024

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

Alexander: Perforations: 5145-51 (13 holes)
Fracturing: 10,000 lbs. 80/100 sand: 40,000 lbs. 20/40 sand: 500 gal. Acid:
455 Bbls. fluid.

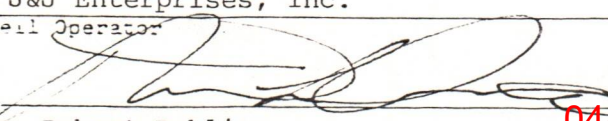
Benson: Perforations: 4855-58 (10 holes)
Fracturing: 10,000 lbs. 80/100 sand: 50,000 lbs. 20/40 sand: 500 gal. Acid:
530 Bbls. fluid.

Riley: Perforations: 4469-71 (3 holes) 4488-90 (4 holes) 4500-01 (3 holes)
Fracturing: 10,000 lbs. 80/100 sand: 34,000 lbs. 20/40 sand: 500 gal. Acid:
505 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay			0	5	
Shale & sand			5	20	
Red rock, shale & sand			20	95	Damp @ 70'
Sand, shale & red rock			95	128	3/4" stream @ 1435'
Sand & shale			128	245	
Coal			245	247	Gas ck @ 2395 No show
Sand, shale & red rock			247	355	Gas ck @ 3327 No show
Sand, shale & lime			355	646	
Lime			646	662	Gas ck @ 3551 No show
Shale & sand			662	925	
Red rock, sand & shale			925	1120	Gas ck @ 3998 No show
White sand			1120	1150	
Shale & sand			1150	1350	Gas ck @ 4416 No show
Sand & shale			1350	1666	
Sand, shale & lime			1666	1850	
Big Lime			1850	1915	
Big. Injun			1915	2042	
Sand & shale			2042	2400	
Sand & shale			2400	4469	
Riley			4469	4501	
Sand & shale			4501	4855	
Benson			4855	4858	
Sand & shale			4858	5145	
Alexander			5145	5151	
Sand & shale			5151	5437	
				T.D.	

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.
Well Operator
By 
155 Robert Dahlin Geologist

04/05/2024

NOTE: Regulation 2.02(d) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

RECEIVED

JUL 29 1983

Date: July 28, 19 83

Operator's Well No. J-684

API Well No. 47 -085 -5986
State County Permit

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

**OIL & GAS DIVISION
DEPT. OF MINES**

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: 1000 Watershed: North Fork Hughes River
District: Clay County: Ritchie Quadrangle: Pennsboro

WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate X
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

PERMIT ISSUED ON 12/9, 19 83 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Samuel N. Hersman
Address P.O. Box 66
Smithville, WV 26178

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet

Depth of completed well, 5437 feet Rotary ___ / Cable Tools ___

Water strata depth: Fresh, 1435 feet; salt, 0 feet.

Coal seam depths: 245-47 Is coal being mined in the area? No

Work was commenced 6/21, 19 83, and completed 6/28, 19 83

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	113/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	85/8	ERW	23	x		1255.85	1255.85	315 sks.	
Coal	85/8	ERW	23	x		1255.85	1255.85	315 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5248.90	5248.90	225 sks.	Depth set
Tubing									
Liners									Perforations:
									Top Bottom
									5145 5151
									4855 4858
									5145 5151

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5145-47 feet

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d

Combined Final open flow, 880 Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1700 psig (surface measurement) after 96 hours shut in

[If applicable due to multiple completion--] 4855-58

Second producing formation Benson & Riley Pay zone depth 4469-4501 feet

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d

Final open flow, ___ Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, ___ hours

Bottom Hole Pressure Static rock pressure, ___ psig (surface measurement) after ___ hours shut in

Pf=PweXGLS

$$t=60+(0.0075 \times 5249)+459.7 + 559 t=53.35 \times 559 =29826 =0.0000335 Pf=1700 \times 2.72 (0.0000335) (0.70$$

$$(4810) (0.9) =1700 \times 2.72^{0.10} =1700 \times 1.107$$

Pf=1883 psi

04/05/2024

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

RECEIVED

JUN 23 1983

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5986

Oil or Gas Well _____
(KIND)

Company J + J Enterprises Inc.
 Address _____
 Farm Dolph Hickman
 Well No. J-684
 District Clay County Pitkin
 Drilling commenced 6-21-83
 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 3/8			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 _____
 S.W. Jack Rig # 1
 Remarks: Tool Pusher Jerry Johnson
Moving on location

6-21-83
DATE

Samuel M. Johnson
DISTRICT WELL INSPECTOR
04/05/2024

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

RECEIVED
JUL 12 1983

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 85-5986

Oil or Gas Well _____
(KIND)

Company J+J Enterprises Inc.

Address _____

Farm Dolph Hickman

Well No. J-684

District Clay County Pitcher

Drilling commenced 6-21-83

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 Damp at 70'
3/4" stream at 1435' feet

Salt water _____ 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 J. D. McVickers T.S. Miller R. D. Winans

S. W. Jack Rig #1 tool Pusher Jerry Johnson

Remarks: on 6-22-83 ran 1255 foot of 8 5/8" casing Halliburton ran
315 sacks cement
5207 foot deep at time of visit

6-28-83

DATE

Samuel A. Heisman 04/05/2024

DISTRICT WELL INSPECTOR

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

04/05/2024

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
NOV 22 1983
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 085-5986 County Ritchie/Clay
Company J & J Enterprises, Inc. Farm Dolph Hickman
Inspector SAMUEL N. HERSMAN Well No. J-684
Date August 2, 1983

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 Strength	✓	—
23.02	Maintained Access Roads	✓	—
25.01	Necessary Equipment to prevent Waste	✓	—
23.03	Reclaimed Drilling Site	✓	—
23.04	Reclaimed Drilling Pits	✓	—
23.05	No surface or underground Pollution	✓	—
7.03	Identification Markings	✓	—

COMMENTS:

OK to Release

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

Samuel N. Hersman 04/05/2024

SIGNED:

11-18-83



State of West Virginia

Department of Mines

Charleston 25305

JOHN D. ROCKEFELLER, IV.
Governor

WALTER N. MILLER
Director

December 27, 1983

J & J Enterprises, Inc.
P. O. Box 48
Buckhannon, W. Va. 26201

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
DOD-2529	Mayme L. Twyford, #K-31-1	West Union
LEW-3330	Encil Bailey, #J-602	Court House
PRES-0233	Interstate Lumber Co., #J-661	Reno
PRES-0234-REN	Interstate Lumber Co., #J-662	Reno
PRES-0238	Interstate Lumber Co., #J-650	Reno
RIT-5985-REN.	Dolph Hickman, #J-683	Clay
RIT-5986-REN.	Dolph Hickman, #J-684	Clay
RIT-6198	Jack Burg, et al/H. K. Haymond, Jr., #J-747	Clay
RIT-6430	Harold Block, #J-785	Clay

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.

Very truly yours,

Theodore M. Streit, Administrator
Dept. Mines-Office of Oil & Gas

TMS/rl