

RECEIVED
DEC 11 1985



1) Date: 18 November, 1985
2) Operator's Well No. JK-1252
3) API Well No. 47-017-3479
State County Permit

STATE OF WEST VIRGINIA
DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DEPARTMENT OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 960' Watershed: Wilhelm Run
District: Central / County: Doddridge Quadrangle: West Union 670
- 6) WELL OPERATOR J&J Enterprises, Inc. CODE: 24150 7) DESIGNATED AGENT Richard Reddecliff
Address PO Box 48 Address PO Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
- 9) DRILLING CONTRACTOR: Name SW Jack Drilling Co.
Address PO Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5600 feet
- 13) Approximate trata depths: Fresh, 35' feet; salt, - feet.
- 14) Approximate coal seam depths: 100 to 420' approx coal being mined in the area? Yes / No /
- 15) 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		
Conductor	11 3/4	H-40	42	X		150' 30	150' 0	0 SKS CTS. by rule 15.0
Fresh water	8 5/8	ERW	23	X		1560	1560	to surface as req. by
Coal	8 5/8	ERW	23	X		1560	1560	to surface Sizes rule 15.05
Intermediate								
Production	4.5	J-55	10.5	X		5550	5550	450 sks Depths set as req. by
Tubing								rule 15.01
Lin.								Perforations:
								Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3479

December 16 1985
Date

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 16, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AB</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>2107</u>	WPCP: <u>MU</u>	S&E: <u>MU</u>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

John L Johnston by Margaret J Hass
Director, Division of Oil and Gas
05/10/2024 file

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

(Faint, mostly illegible text from the reverse side of the page, including names like 'Richard Redbeck', 'Mike Underwood', and 'Salom, WV 26201'. Some handwritten 'X' marks are visible.)

OFFICE USE ONLY

This part of Form WW-2(B) is to record the dates of certain occurrences and any follow-up inspections.

	<u>Date</u>	<u>Date(s)</u>
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____



IV-9
(Rev 8-81)

DATE 18 November '85

WELL NO. JK-1252

API NO. 47-017-3479

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY of West Virginia

Rec'd. (WF-SCD)
NOV 20 1985

Department of ENERGY
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J&J Enterprises, Inc.
Address PO Box 46
Buckhannon, WV 26201
Telephone 304-472-9404

DESIGNATED AGENT Richard Reddicliff
Address PO Box 46
Buckhannon, WV 26201
Telephone 304-472-9404

LANDOWNER PAUL D. & Dolores J. Harper
141 CAMDEN AVE, Buckhannon
Revegetation to be carried out by _____

SOIL CONS. DISTRICT WEST FORK
J&J Enterprises, Inc. (Agent)

This plan has been reviewed by West Fork SCD. All corrections
and additions become a part of this plan: 12/4/85

(Date)
Kenneth E Knight
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culverts (A) Structure Diversion Ditch (1)
(accord. to O&G Manual (at natural drains))
Spacing AS Shown and As Needed Material Soil (2% max. slope)
(15" min. when leaving a state road.)
Page Ref. Manual 2-7 with riprapped outlet Page Ref. Manual 2-12

Structure Drainage Ditch (B) Structure Drilling Pit (2)
(Inside road cuts)
Spacing To be constructed along Material Soil
the access road.
Page Ref. Manual 2-12 Page Ref. Manual -----

Structure Cross Drains (C) Structure Sediment Trap (3)
5%-135' 15%-60'
Spacing 10%- 80' 20%-45' Material Soil
with rapped outlet
Page Ref. Manual 2-4 Page Ref. Manual -----

Hay Bales (D)

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

WOODS & PASTURE FIELD

Treatment Area I

Treatment Area II

*Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or Straw 2 Tons/acre
Seed Kv-31 Tall Fescue 30 lbs/acre
Annual Rye 10 lbs/acre
Red Clover 5 lbs/acre

*Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or Straw 2 Tons/acre
Seed Kv-31 Tall Fescue 30 lbs/acre
Annual Rye 10 lbs/acre
Red Clover 5 lbs/acre

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

*Lime according to pH test.

OSTRANDER LAND SURVEYING, INC.
PLAN PREPARED BY Rexford L. Os 05/10/2024

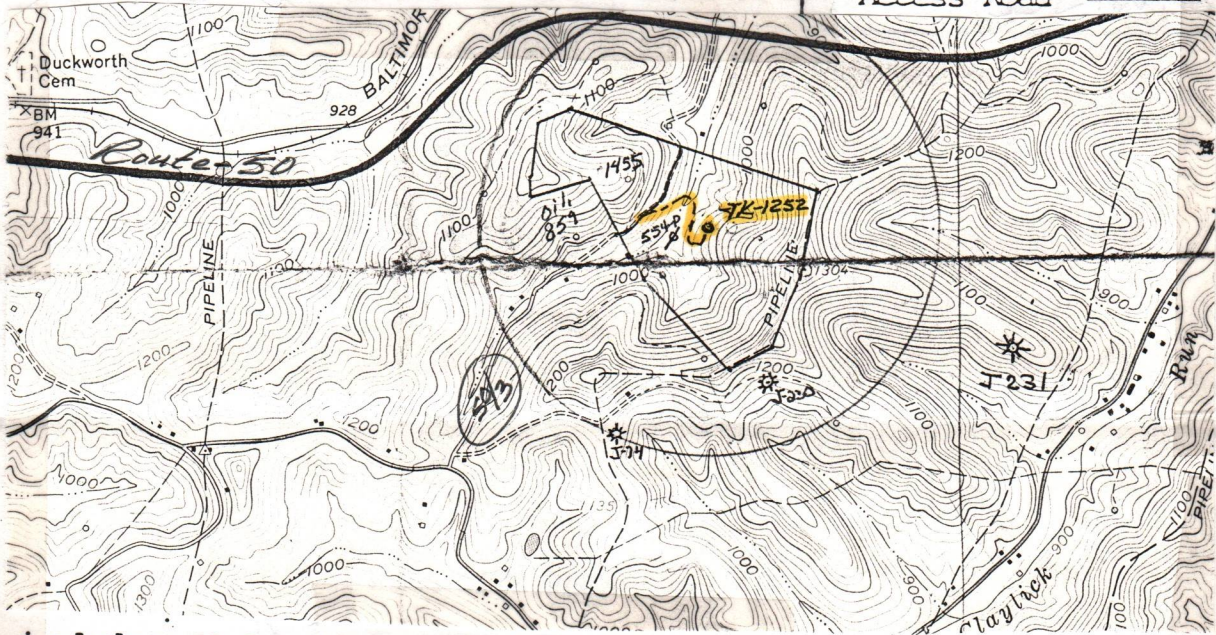
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ADDRESS Rt. 2, Box 375-6
Buckhannon, WV 26201

PHONE NO. 304-472-0817

LEGEND

Well Site (circle with cross) Access Road (double line)



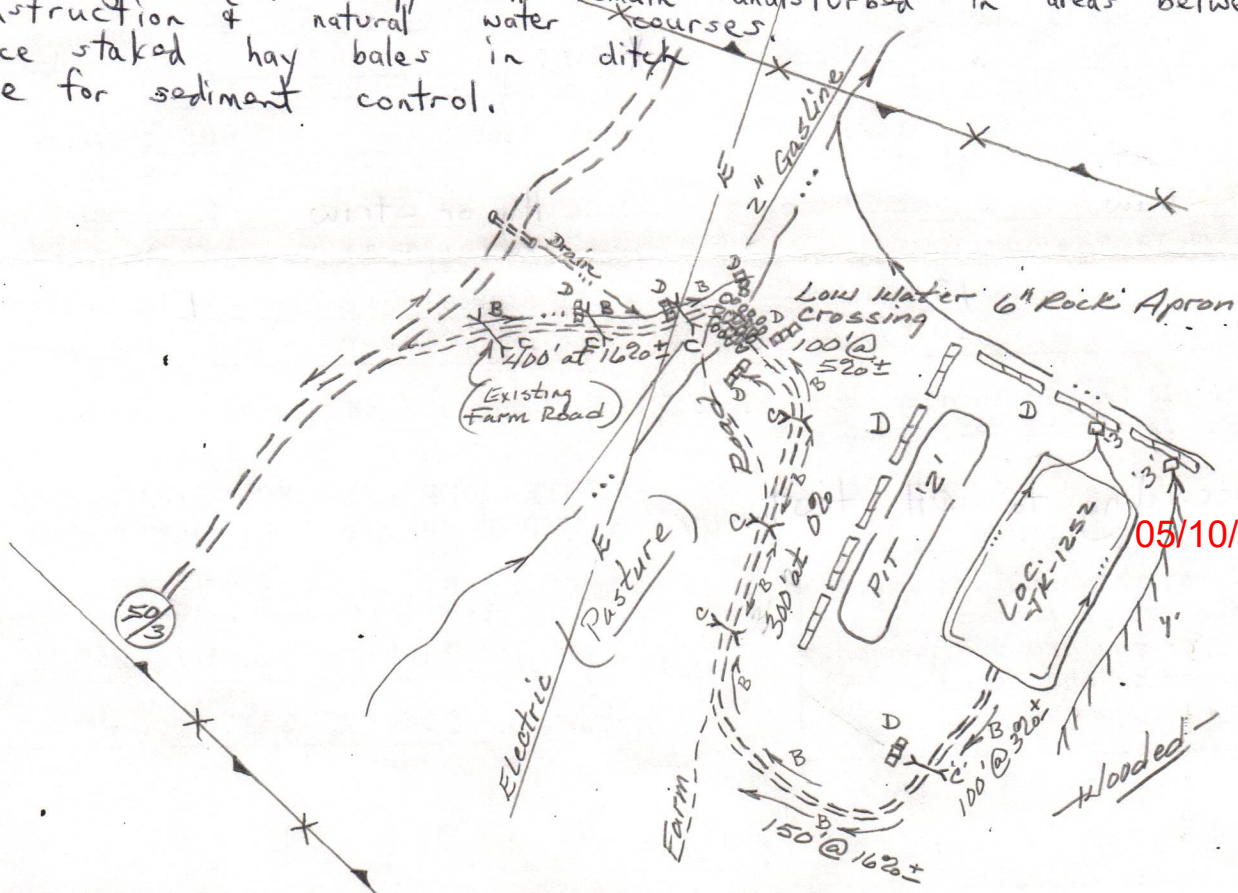
Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary (dashed line) Road (double line) Existing fence (line with X) Planned fence (line with /) Stream (wavy line) Open ditch (dotted line)

Hay Bale Barrier (rectangle with vertical lines) Diversion (line with diagonal hatching) Spring (circle with arrow) Wet spot (circle with vertical lines) Building (rectangle with cross-hatch) Drain pipe (line with circles) Waterway (line with horizontal hatching)

- Top Soil to be stockpiled for reclamation purposes.
- All cuts to be on a 2:1 slope unless in rock.
- Drainage to be maintained after completion of well and seeding to completed within 6 months after completion of well.
- Pit- Impervious material or pit liner.
- Access Road, location and structures subject to change between company and land owner. (If changed-the revised reclamation plan will be submitted and approved before starting excavation.)
- Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.
- Place staked hay bales in ditch line for sediment control.



05/10/2024

REVISED 12/10/85

1) Date: November 18, 1985
Operator's
2) Well No. JK-1252
3) API Well No. 47 - 017 - 3479
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

- (i) Name Paul D. & Dolores J. Harper
Address 141 Camden Ave.
Buckhannon, WV 26201
- (ii) Name _____
Address _____
- (iii) Name _____
Address _____

5 (i) COAL OPERATOR

Address _____

5 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name N/A
Address _____
Name _____
Address _____

5 (iii) COAL LESSEE WITH DECLARATION ON RECORD:

Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form WW-2(B) which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form WW-6, and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE APPLICATION WW-2(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, with respect to a well at the location described on attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director of the Division of Oil and Gas.

6) 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 22B-1-8(c)(1) through (4). (see reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other 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 WW-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Richard Reddecliff

WELL OPERATOR J & J ENTERPRISES, INC.

By Richard M. Reddecliff
Its Designated Agent
Address P.O. Box 48
Buckhannon, W V 26201
Telephone 304 -472-9404

this 10 day of Dec, 1985,
My commission expires 11-18-86, 1992
Edward B. Summers
Notary Public, Upshur County,
State of W. Va.

05/10/2024

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Division of Oil & gas.
- 4) & 5) Use separate sheet if necessary.

- 4) Surface owner(s) of the well. However, see also common or other co-owners in this section hold
- 5(i) "Coal Operator" means the person or corporation who is the owner or operator of a coal mine.
- 5(ii, iii) See Code §22B-1-36
- 6) See Code §22-4-11(c) for continuing contract. Fill in the space provided
- 7) See Code §§ 22-4-

CONCERNING THE REQUIRED COPIES:

Filing. Code §22B-1-11 requires the filing of three copies of the application, accompanied by a bond in the amount of \$22,500.00 on each well, the amount of which may vary if applicable, and of any water well on the same well.

Service. In addition to the person(s) with whom the application is filed, the application shall be served on the surface owner(s) and § 22B-1-14.

P 682 419 795

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse) JK-1252

Sent to <i>James D. & Janet E. Davis</i>	
Street and No. <i>708 Clark St.</i>	
P.O., State and ZIP Code <i>Shinnston, WV 260431</i>	
Postage	\$ <i>39</i>
Certified Fee	<i>75</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	<i>70</i>
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>184</i>
Postmark or Date <i>MAR 1982</i>	

* U.S.G.P.O. 1983-403-517
PS Form 3800, Feb. 1982

and Application. See tenants in subsection (a) of § 22B-1-11, partnership association or other entity to be a coal mine.

the lease(s) or other contract(s) and the information in § 22B-1-11.

the original and copies of the application filed with the Advertiser as prescribed by Regulation 12, or in lieu of the reclamation bond previously paid under § 22B-1-29, and § 22B-1-21 from the owner of the proposed well.

surface owner(s) and § 22B-1-9, 22B-1-13

INFORMATION SUPPLIED UNDER CODE §22B-1-8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book page</u>
Edna R. Britton & others	Samuel D. Gaston	1/8	137/375-385
Samuel D. Gaston	Kepeco, Inc.		138/202

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1) Date: 18 November, 1985
2) Operator's Well No. JK-1252
3) API Well No. 47 State 017 County 3479 Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil Gas
B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 960' Watershed: Wilhelm Run
District: Central County: Doddridge Quadrangle: West Union
- 6) WELL OPERATOR J&J Enterprises, CODE: 24150 7) DESIGNATED AGENT Richard Reddecliff
Address PO Box 48 Inc. Buckhannon, WV 26201 Address PO Box 48 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood 9) DRILLING CONTRACTOR: Name SW Jack Drilling Co.
Address Pt. 2, Box 135 Salem, WV 26426 Address PO Box 48 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5600 feet
- 13) Approximate strata depths: Fresh, 35' feet; salt, - feet.
- 14) Approximate coal seam depths: 100 to 420' approx. Is coal being mined in the area? Yes / No

15) 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		1560	1560	to surface	as req. by
Coal	8 5/8	ERW	23	X		1560	1560	to surface	Sizes rule 15.05
Intermediate									
Production Tubing	4.5	J-55	10.5	X		5550	5550	450 sks	Depths set as req. by rule 15.01
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form WW-2(A), (2) an Application for a Well Work Permit on Form WW-2(B) (3) a survey plat on Form WW-6, and (4) a Construction and Reclamation Plan on Form WW-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.) (For execution by natural persons)

NAME: _____
By _____
Its _____ Date _____

[Signature]
(Signature) Date 12-10-85

(Signature) 05/10/2024
Date _____



1) Date: 18 November, 1985, 19
 2) Operator's Well No. JK-1252
 3) API Well No. 47 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 960' Watershed: Wilhelm Run
 District: Central County: Doddridge Quadrangle: West Union
- 6) WELL OPERATOR J&J Enterprises, Inc. CODE: 24150 7) DESIGNATED AGENT Richard Reddecliff
 Address PO Box 48 Address PO Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mike Underwood Name SW Jack Drilling Co.
 Address Rt. 2, Box 135 Address PO Box 48
Salem, WV 26426 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
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- 14) Approximate coal seam depths: 100 to 420' approx Is coal being mined in the area? Yes _____ / No X /

15) 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
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Production	4.5	J-55	10.5	X		5550	5550	450 sks	Depths set as req. by rule 15.01
Tubing									
Liners									Perforations: Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application, and that I have received copies of (L) a Notice of Application for a Well Work Permit on Form WW-2(A), (2) an Application for a Well Work Permit on Form WW-2(B), (3) a survey plat on Form WW-6, and (4) a Construction and Reclamation Plan on Form WW-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____

Robert J. Harper
 (Signature) Date 12-10-85

By _____

Its _____ Date _____

(Signature) 05/10/2024
 Date _____

INSTRUCTIONS TO SURFACE OWNERS
AND
EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT
ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22B, Article 1 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Director of the Division of Oil and Gas in the West Virginia Department of Energy immediately.

NOTE : YOU ARE NOT REQUIRED TO FILE ANY COMMENT AT ALL.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION :

Director, Division of Oil and Gas
West Virginia Department of Energy
1615 Washington Street, East
Charleston, West Virginia 25311-2192
(304) - 348 - 3500

Who may file comments? If you wish to file comments, you must be an owner of record of (1) and interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract over the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in METHODS FOR FILING COMMENTS below. You may call the Director's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Director's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Director for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Director.

List of Water Testing Laboratories. The Director maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Director's office or an Oil and Gas Inspector to obtain a copy of the list.

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SITE REGISTRATION APPLICATION FORM
STATE OF WEST VIRGINIA/NPDES GENERAL PERMIT FOR OIL AND GAS
DRILLING PIT WASTE DISCHARGE
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1. Company Name J & J ENTERPRISES, INC.
2. Mailing Address P. O. BOX 48, BUCKHANNON, WV 26201
street city state zip
3. Telephone 472-9403 4. Well Name TK-1252
5. Latitude 39°16'20" Longitude 80°50'33"
6. NPDES # WV0073343 7. Dept. Oil & Gas Permit NO. 47-017-3479
8. County Doddridge 9. Nearest Town West Union
10. Nearest Stream Wilhelm Run 11. Tributary of Arnold Creek
12. Will Discharge be Contracted Out? yes no
13. If Yes, Proposed Contractor PKC
Address 44 Baltimore Street, Westover, WV 26505
Telephone 304-291-5960
14. Proposed Disposal Method: UIC _____ Land application
Off Site Disposal _____ Reuse _____ Centralized Treatment _____
Thermal Evaporation _____ Other _____
15. Attach to this application a topographic map (a duplicate of the one submitted to the Office of Oil and Gas) showing the outline of the facility, location of wells, springs, rivers and other surface water bodies, and drinking water wells known to the applicant in the area of the lease that may be impacted by any land application.

Nothing in the general permit shall be deemed in any way to create new, or enlarge existing, rights of riparian owners or others. Neither does anything in the general permit create new, or enlarge existing, obligations or duties of an operator pursuant to the requirements of W. Va. Code S22-4-1 et seq. The issuance of the general permit does not convey any property rights of any sort. Nor shall the issuance of the general permit give rise to any presumptions of law or findings of fact inuring to or for the benefit of persons other than the State of West Virginia.

05/10/2024

By completing and submitting this application, I have reviewed, understand, and agree to the terms and conditions of the general permit issued on July 10, 1985. I understand that provisions of the permit are enforceable by law. Violations of any term and condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

COMPANY OFFICIAL SIGNATURE

Edward D. Emmert

DATE 11-18-85

Please attached \$50.00 permit application fee required by Series III, Section 7, of the West Virginia Administrative regulations of the State Water Resources Board.

All spills or accidental discharges are required to be reported immediately to the Emergency Response Spill Alert System toll free telephone number 1-800-642-3074.

LANDOWNER ADMINISTRATIVE REVIEW RIGHTS

The conditions in the general NPDES permit for pit waste treatment and discharge have been developed so that they are applicable to general conditions found throughout the state. There may be particular sets of circumstances at specific sites that require modification of established procedures. You as a land owner, if you feel the site on your property requires such consideration for water quality/general permit compliance related matters, may request an administrative review of that site. If there are valid water quality concerns, the Division of Water Resources will address them by either not allowing the pit construction and subsequent discharge, or by altering the standard operating procedures to deal with the particular unique nature of this site. Such requests should be forwarded in writing to:

Chief, Division of Water Resources
Department of Natural Resources
1201 Greenbrier St.
Charleston, West Virginia 25311.

To ensure prompt review of your site it is suggested that you also call the Field Operations Branch (348-2745) and verbally make the request.

05/10/2024

OSTRANDER LAND SURVEYING, INC.

P. O. Box 676
BUCKHANNON, W. VA. 26201
(304) 472-0817

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____

Well N°. JK-1252 District: Central County: Doddridge
Lease N°. KW-1137 Surface Owner: Paul D. & Dolores J. Harper
Phone N°. 472-4457 Address: 141 Camden Ave.
Buckhannon, WV 26201

Surface owner lives on property: No

Comments made by surface owner:

Location Information: Flagged Pink & Orange. Wooded Area,
Gentle Terrain (2%±).

Access Road Information: To Follow a Farm Road to be upgraded,
Low water crossing at creek. 250' of proposed Road
Lays in the woods.

Property Line Information: Not Near a property line.

Right-of-way for Road: N/A Approximate Distance:

Heavy Hauling Approach Permit onto State Route N°. 50/3 Yes or No

MISS UTILITY: ID N°. 3220047

Date Called: 18 Nov. '85

Utilities they will inform: C&P Tele, At&T,
Union Carbide, Consolidated Gas, Equitable,
Columbia Transmission, Carnegie Nat. Gas.

COMMENTS:

05/10/2024

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER OF "OIL AND GAS RECLAMATION NOTICE"

STATE OF W. Va., COUNTY OF Upshur: PIT FORM (NPDES) X

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of the attached "Oil and Gas Reclamation Notice" (Form IV-72) with respect to operator's Well No. JK-1252 located in Central District, Doddridge County, West Virginia, upon the person or organization named--

Paul D. and Dolores T. Harper

--by delivering the same in Upshur County, State of W. Va. on the ___ day of _____, 19__ in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[] Handing it to him her or, because he ___ / she ___ / refused to take it when I offered it, by leaving it in his ___ / her ___ / presence.

[] Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

[] Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

[] Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

[] Handing it to the corporation's employee ___ / officer ___ / director ___ / attorney in fact ___ / named _____.

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 10 day of Dec, 1983.
My commission expires 11-18-92.

[Signature]
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

RECEIVED DEPARTMENT OF ENERGY



TV-35 Rev 8-81)

Date January 8, 1986
Operator's Well No. JK-1252
Farm Edna Britton
API No. 47 - 017 - 3479

JAN 9 1986

State of West Virginia
Department of Mines
Oil and Gas Division

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: 960 Watershed Wilhelm Run
District: Central County Doddridge Quadrangle West Union

COMPANY J&J Enterprises, Inc.
ADDRESS P.O. Box 48, Buckhannon, WV 26201
DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48, Buckhannon, WV 26201
SURFACE OWNER Paul & Delores J. Harper
ADDRESS 141 Camden Ave., Buckhannon, WV 26201
MINERAL RIGHTS OWNER Edna R. Britton & others
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt. # 2, Box 135 Salem, WV 26426
PERMIT ISSUED 12/16/85
DRILLING COMMENCED 12/21/85
DRILLING COMPLETED 12/30/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Alexander Depth 5211-43 feet
Depth of completed well 5423 feet Rotary x / Cable Tools
Water strata depth: Fresh 45,250 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5211-43 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 808 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--)

05/10/2024

DODD DODD 3479

(Continue on reverse side)

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

Riley: Perforations: 4424-25 (3 holes) 4507-08 (3 holes) 4521-24 (6 holes) 4542-43 (3 holes)
 Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 417 Bbls. fluid.
 Benson: Perforations: 4944-46 (8 holes)
 Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 567 Bbls. fluid.
 Alexander: Perforations: 5211-15 (7 holes) 5228-32 (7 holes) 5243-43.5 (2 holes)
 Fracturing; 600 sks. 20/40 sand: 500 gal. acid: 679 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe $\frac{XGLS}{1}$ $\frac{1}{1}$ $\frac{1}{1}$
 $t=60+(5326 \times 0.0075)+459.7 = 559.6$ $X=53.34$ $=53.34(559.6)$ $=29849$ $=0.0000335$ $Pf=(1700)(2.72)$
 $(0.0000335)(0.698)(4833.5)(0.9)$ $Pf=(1700)(2.72)(0.1017) = (1700)(1.107)$

Pf=1882 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fre and salt water, coal, oil and c
Top Soil			0	5	
Red rock, shale & sand			5	55	
Red rock, shale & sand			55	135	½" stream @ 45'
Red rock, shale & sand			135	200	
Shale & sand			200	260	1" stream @ 250'
Red rock			260	300	
Red rock & shale			300	465	Gas ck @ 2113 6/10-½" w/water 25.83 cu.ft
Sand & shale			465	685	
Sand & shale			685	815	Gas ck @ 2591 6/10-½" w/water 25.83 cu.ft.
Red rock, sand & shale			815	1035	
Red rock & shale			1035	1125	
Sand & shale			1125	1235	Gas ck @ 3538 No show
Sand & shale			1235	1820	
Sand & shale			1820	1980	Gas ck @ 4156' No show
Lime			1980	2060	
Sand			2060	2110	Gas ck @ 4585 No show
Sand & shale			2110	2300	
Sand & shale			2300	3535	Gas ck @ 4929 No show
Sand & shale			3535	4424	
Riley.			4424	4543	Gas ck @ 5237 No show
Sand & shale			4543	4944	
Benson			4944	4946	
Sand & shale			4946	5211	
Alexander			5211	5243	
Sand & shale			5243	5423	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Daniel F. Stark 05/10/2024
 Date: 1/8/85 Daniel F. Stark - Geologist

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 sand, encountered in the drilling of a well."

INSPECTOR'S PERMIT SUMMARY FORM

12-16-85

WELL TYPE _____
ELEVATION 960
DISTRICT Central
QUADRANGLE West Union
COUNTY Doddridge

API# 47-017-3479
OPERATOR J & J Enterprises
TELEPHONE _____
FARM _____
WELL # JK-1252

JUN 17 1986

SURFACE OWNER Harper, Paul COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____

DATE STARTED _____
LOCATION 12-17-85 NOTIFIED 12-16-85 DRILLING COMMENCED 12-20-85

S.W. Jack - Rig 22

WATER DEPTHS 1" at 250', _____, _____, _____
COAL DEPTHS No -, _____, _____, _____

CASING

Ran 156' feet of 1 1/4" "pipe on 12-22-85 with 70-S. fill up H.B.
Ran 1587' feet of 8 5/8" "pipe on 12-23-85 with 100-S. fill up H.B.
Ran 5345' feet of 4 1/2" "pipe on 12-30-85 with 270-S. fill up H.B.
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD 5423' feet on 12-30-85

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type _____

Field analysis ph _____ fe _____ cl _____

Well Record received _____

Date Released 6-12-86.

Mike Underwood.
Inspector's signature

05/10/2024

3479

API# 47 017 - 3479.

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1	12-17-85	3:00		To check on Brewsk works
2	12-20-85	1:00		To check Rig —
3	12-30-85	12:00		To get T.P. Report.
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

O.K. to REL

RECEIVED
 JAN 10 1986

FERC-121

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

1.0 Well number: (If not available, leave blank. 11 digits.)	47-017-3479			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code		
3.0 Depth of the deepest formation enclosed (Only show well sections 103 or 107 in 2.0 above.)	5243 feet			
4.0 Name, address and code number of applicant (25 letters per line maximum. If code number not available, leave blank.)	J & J Enterprises, Inc. P.O. Box 697 Indiana Pa. 15701 City State Zip Code		009480 Serial Code	
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (25 letters maximum for field name.)	Central Field Name Doddridge County WV State			
(b) For OCS wells:	N/A Area Name		Block Number	
(c) Name and identification number of this well (25 letters and digits maximum.)	JK-1252			
(d) If code 4 or 5 in 2.0 above, name of the reservoir (25 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser (25 letters and digits maximum. If code number not available, leave blank.)	Purchaser not yet designated			
(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 2 decimal places.)	3.616	.278	---	3.890
8.0 Maximum lease rate (As of filing date. Complete to 2 decimal places.)	3.616	.278	---	3.890
9.0 Person responsible for this application	J. H. McElwain Exec. V. President Name Title <i>James H. McElwain</i> Signature 1-9-86 Date of Filing (412) 349-6000 File Number			

Stamp: JAN 10 1986

05/10/2024

JAN 30 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Jan 9, 1986 24150

Applicant's Name: J & J ENTERPRISES, INC.

Address: P.O. Box 697

Indiana, PA. 15701

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: Purchaser not yet designated

Address: _____
(Street or P.O. Box)

(City) _____ (State) _____ (Zip Code) _____

FERC Seller Code 009480

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Vicki Vanderberg

Signature: (Print) Vicki Vanderberg _____ (Title) _____

Address: P.O. Box 697
(Street or P.O. Box)
Indiana, PA. 15701

Telephone: (City) 412 (State) 349-6800 (Zip Code)
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 02 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir

- 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Affected
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressure Buildup

- 03 New Onshore Production Well
- 103 New Onshore Production Well

- 07 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recombination Tight Formation

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

860110 - 1030 - 017 - 3479

Use Above File Number on all Communications Relating to This Well

Designated Agent: Richard Reddecliff

Address: P.O. Box 48
Buckhannon, WA 26201

RECEIVED
JAN 10 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AGENCY USE ONLY

QUALIFIED

05/10/2024

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

Date Jan. 9 1986
Operator's Well No. JK-1252
API Well No. 47 - 017 - 3479
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
MGA Section 103

DESIGNATED AGENT James R. Willett
ADDRESS S.W. Jack Drilling Company
Box 48 Buckhannon, W. VA. 26201

WELL OPERATOR J & J Enterprises, Inc.
ADDRESS P. O. Box 697
Indiana, PA 15701

LOCATION: Elevation 940
Watershed Wilhelm Run
Dist. Central County Dodridge Quad West Union

GAS PURCHASER Purchaser not yet designated
ADDRESS _____

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

Date surface drilling was begun: December 21, 1985

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

Rock Pressure: Well was shut in several days after treatment and pressure was measured

BOTTOM HOLE PRESSURE Pf=Pwe XGLS

$$t=60+(5326 \times 0.0075)+459.7 = 559.6 \quad X=\frac{1}{53.34} = \frac{1}{53.34(559.6)} = \frac{1}{29849} = 0.0000335 \quad Pf=(1700)(2.72)(0.0000335)(0.698)(4833.5)(0.9) = (1700)(2.72)(0.1017) = (1700)(1.107)$$

Pf=1882 psi

AFFIDAVIT

I, James H. McElwain, 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 is 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.

James H. McElwain

STATE OF ~~WEST VIRGINIA~~ PA
COUNTY OF Indiana, TO WIT:

I, Vicki Vanderberg a Notary Public in and for the state and county aforesaid, do certify that J.H. McElwain, whose name is signed to the writing above, bearing date the 9 day of Jan, 1986, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 9 day of Jan, 1986.

My ~~COMMISSION~~ expires on the 23 day of January, 1988.
Commission

[NOTARIAL SEAL]

Vicki L. Vanderberg
Notary Public
05/10/2024

VICKI L. VANDERBERG, NOTARY PUBLIC
INDIANA BOROUGH, INDIANA COUNTY
MY COMMISSION EXPIRES JAN. 23, 1988
Member, Pennsylvania Association of Notaries

RECEIVED
JAN 14 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1.0 API well number: (If not available, leave blank. 11 digits.)	47-017-3479			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	107 Section of NGPA	N/A Category Code		
3.0 Depth of the latest completion location (Only one field; sections 103 or 107 in 2.0 above.)	5243 feet			
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	J & J Enterprises, Inc. P.O. Box 697 Indiana Pa. 15701			009480 State Code
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Central Field Name Doddridge County WV		State	
(b) For OCS wells	N/A Area Name		Block Number	
	Date of Lease: Mo. Day Yr.		OCS Lease Number	
(c) Name and identification number of this well (35 letters and digits maximum)	JK-1252			
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum)	N/A			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	Purchaser not yet designated			
(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 (Actual filing date. Complete (a) through (c).)	6.130	278		6.410
8.0 Maximum level rate (Actual filing date. Complete (a) through (c).)	6.130	278		6.410
9.0 Person responsible for this application	J. H. McElwain Exec. V. President Name: <i>James H. McElwain</i> Title: <u>Exec. V. President</u> 1-13-86 (412) 349-6000 Date of completion is complete!			

Agency Use Only
JAN 14 1986

05/10/2024

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

37538-77

JAN 30 1986

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 1-13, 19 86 24150

Applicant's Name: J & J ENTERPRISES, INC.

Address: P.O. Box 697
Indiana, PA. 15701

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: Purchaser not yet designated

Address: _____
(Street or P.O. Box)

(City) (State) (Zip Code)

FERC Seller Code 009480

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

860114 -1673-017 - 3479

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Richard Reddick

Address: P.O. Box 48
Buckhannon, WA 26201

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL
BE ADDRESSED:

Name: Vicki Vanderberg
(Print) (Title)

Signature: *Vicki Vanderberg*

Address: P.O. Box 697
(Street or P.O. Box)
Indiana, PA. 15701
(City) (State) (Zip Code)

Telephone: 412 349-6800
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

- NGPA SECTION/SUBSECTION
- | | | |
|--|----------------------------|---|
| <u>02 New Natural Gas</u> | <u>102-2 2.5 Mile Test</u> | <u>108 Stripper Well Natural Gas</u> |
| <u>102-3 1000 Foot Deeper Test</u> | | <u>108- Stripper Well</u> |
| <u>102-4 New Onshore Reservoir</u> | | <u>108-1 Seasonally Affected</u> |
| | | <u>108-2 Enhanced Recovery</u> |
| | | <u>108-3 Temporary Pressure Buildup</u> |
| <u>03 New Onshore Production Well</u> | | |
| <u>103 New Onshore Production Well</u> | | |

- 07 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

05/10/2024

RECEIVED

JAN 14 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: J & J Enterprises, Inc. Agent: Richard Reddecliff
 Type Determination being sought - 107 (Devonian Shale)
 API Well No.: 47-017-3479 Well Name: Britton (JK-1252)
 West Virginia Office of Oil and Gas County: Doddridge
 References: SJA File No.

Vol. _____ Page _____ Line _____

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 175 * API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 122.5 * API Units
2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{175} \text{ *)} = \underline{122.5} \text{ API Units}$

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2465'	5368'	2903'	86'

Total Devonian Interval 2903'

Total Less Than 0.7 (Shale Base) 86'

% Less Than 0.7 (Shale Base Line) = $\frac{0.0296}{1} \times 100 = \underline{2.96} \%$

05/10/2024

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this Column.

***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT Richard Reddecliff

ADDRESS P.O. Box 48
Buckhannon, West Virginia, 26201

LOCATION Elevation 900
Watershed Wilhelm Run
Dist. Central County Dodridge Union

WELL OPERATOR J & J Enterprises, Inc.

ADDRESS P.O. Box 697
Indiana, PA 15701

GAS PURCHASER Not Yet Designated

ADDRESS _____

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

* * * * *

Date surface drilling began: December 21, 1985

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

BOTTOM HOLE PRESSURE $Pf = P_{we} \frac{XGLS}{1}$

$$t = 60 + (5326 \times 0.0075) + 459.7 = 559.6$$

$$X = 53.34 = 53.34 \frac{1}{(559.6)} = 29849 = 0.0000335$$

$$Pf = (1700) (2.72) (0.1017) = (1700) (1.107)$$

Pf=1882 psi

AFFIDAVIT

I, James H. McElwain, 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 in subparagraph (3)(1) or (3)(11)(A) has been filed, or as indicated by the report described in subparagraph (3)(11)(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.

James H. McElwain

STATE OF WEST VIRGINIA PA
COUNTY OF Indiana, TO-WIT:

I, Vicki L. Vanderberg, a Notary Public in and for the state and county aforesaid, do certify that James H. McElwain, whose name is signed to the writing above, bearing date the 13 day of Jan, 1986 05/10/2024 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 13 day of Jan, 1986.
My term of office expires on the 23 day of January, 1988.

(NOTARIAL SEAL)

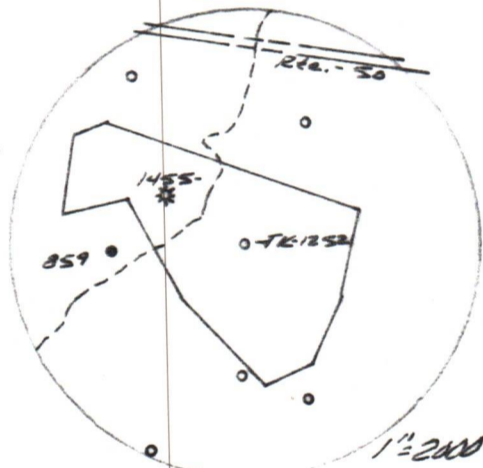
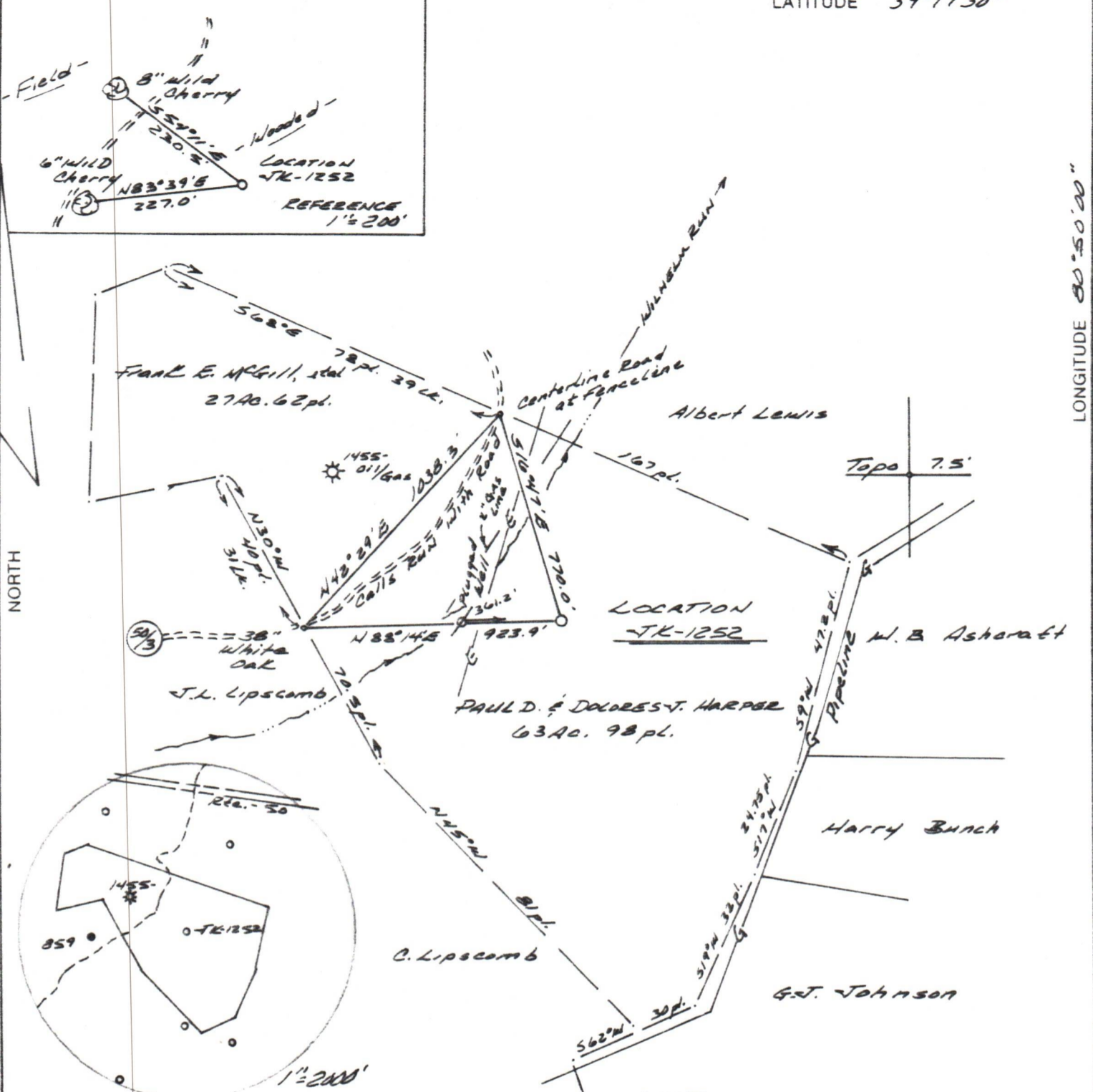
Vicki L. Vanderberg
VICKI L. VANDERBERG, NOTARY PUBLIC
INDIANA BOROUGH, INDIANA COUNTY
MY COMMISSION EXPIRES JAN 23, 1988
Member, Pennsylvania Association of Notaries

MU 12-16-85

2,600'

LATITUDE 39°17'30"

LONGITUDE 80°50'00"



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 34601
 DRAWING NO. 85-43
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200'
 PROVEN SOURCE OF ELEVATION Spot Elev. - 1304'
East of location.

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) Rayford L. Astorades
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 18 November, 19 85
 OPERATOR'S WELL NO. JK-1252
 API WELL NO. _____

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 960' WATERSHED Wilhelma Run
 DISTRICT Central COUNTY Doddridge
 QUADRANGLE West Union
 SURFACE OWNER Paul D. and Dolores T. Harper ACREAGE 63 Ac. 98 pl.
 OIL & GAS ROYALTY OWNER Etha R. Britton and others LEASE ACREAGE 63 Ac. 98 pl.
 LEASE NO. KW 1137
 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 Alexander ESTIMATED DEPTH 5600'
 WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECKIEF
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

05/10/2024

FORM IV-B (6-75)

COUNTY NAME PERMIT