

7/85



1) Date: October 14, 19 85  
 2) Operator's Well No. JK-1245  
 3) API Well No. 47 - 095-1120  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

**RECEIVED**  
OCT 28 1985

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DIVISION OF OIL & GAS 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: 1186' Watershed: Big Run  
 District: Centerville / County: Tyler / Quadrangle: West Union 7.5' 670
- 6) WELL OPERATOR J&J Enterprises, Inc. / CODE: 24150 7) DESIGNATED AGENT Richard M. Reddecliff  
 Address P.O. Box 48 / Address P.O. Box 48  
Buckhannon, WV 26201 / Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther 9) DRILLING CONTRACTOR: Name S.W. Jack Drilling Co.  
 Address General Delivery / Address P.O. Box 48  
Middlebourne, WV 26419 / 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, Rhine Street
- 12) Estimated depth of completed well, 5995' feet
- 13) Approximate trata depths: Fresh, 125' feet; salt, N/A feet.
- 14) Approximate coal seam depths: N/A 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	11 3/4	H-40	42	X		250-30'	250-0'	0 Sacks	as by rule 15-a
Fresh water	8 5/8	ERW	23	X		1786'	1786'	To Surface	
Coal	8 5/8	ERW	23	X		1786'	1786'	To Surface	
Intermediate									Sizes
Production	4 1/2	J-55	10.5	X		5995'	5945'	300 Sacks	as required by rule 15-01
Tubing								as required	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-095-1120 Date October 28 19 85

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 October 28, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <input checked="" type="checkbox"/>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
		<u>MAU</u>	<u>MM</u>	<u>2097</u>			

Margaret J. Dasse  
Director, Division of Oil and Gas

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

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

05/03/2024



OFFICE USE ONLY

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

1) WELL OPERATOR: General Energy  
 2) LOCATION: Wetzel County, West Virginia  
 3) PROPOSED WELL WORK: Drill & Casing  
 4) DRILLING CONTRACTOR: General Energy  
 5) DESIGNATED AGENT: General Energy  
 6) UNDERGROUND STORAGE: None  
 7) DESIGNATED AGENT: General Energy  
 8) APPROXIMATE COST: \$20,000  
 9) APPROXIMATE TRAP DEPTH: 1000  
 10) APPROXIMATE COAL SEAM DEPTH: 1000  
 11) GEOLOGICAL TARGET FORMATION: Clinton  
 12) ESTIMATED DEPTH OF COMPLETED WELL: 1000  
 13) APPROXIMATE TRAP DEPTH: 1000  
 14) APPROXIMATE COAL SEAM DEPTH: 1000  
 15) CASING AND TUBING PROGRAM: See table below

CASING OR TUBING TYPE	DEPTH (FEET)	DATE	STATUS
5" O.D. X 12.75" I.D. S&W	1000	10/23	Completed
4" O.D. X 10.75" I.D. S&W	1000	10/23	Completed
3" O.D. X 8.75" I.D. S&W	1000	10/23	Completed

OFFICE USE ONLY

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

Date	Event	Follow-up inspection(s)
	Application received	
	Well work started	
October 28	Completion of the drilling process	
	Well Record received	
	Reclamation completed	
	OTHER INSPECTIONS	

Reason: None  
 Reason: None

NOTE: A copy of this permit posted at the drilling location.  
 Director, Division of Oil and Gas  
 05/03/2024

1) Date: October 14, 1985  
Operator's  
2) Well No. JK-1245  
3) API Well No. 47 - 095 - 1120  
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 Roy A. Meredith  
Address Rt. 1 Box 233  
Washington, WV 26181  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5 (i) COAL OPERATOR N/A  
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 N/A  
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 COPY 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 M. Reddecliff, this 14th day of October, 1985, My Commission expires 12/7, 1992.  
Gregory A. Smith  
Notary Public, Gilmer County, State of WV

WELL OPERATOR J&J Enterprises, Inc.  
By Richard M. Reddecliff  
Its Designated Agent  
Address P.O. Box 48  
Buckhannon, WV 26201  
Telephone 472-9403

RECEIVED  
OCT 28 1985  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

05/03/2024

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 record to be served with Notice and Application. However, see also Code §22B-1-9(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code §22B-1-36.
- 6) See Code §22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11 (d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code §22B-1-6 and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 §22B-1-2C and the reclamation required by Code §22B-1-30 and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code §22B-1-2(c) and 22B-1-29, and (v) if applicable, the consent required by Code §22B-1-21 from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22B-1-9, 22-B-1-13 and 22B-1-14.

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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:

Grantor, lessor, etc.

Grantee, lessee, etc.

Royalty

Book page

( See Attached Sheet )

05/03/2024

RECEIVED  
OCT 28 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY



State of West Virginia  
Department of ENERGY  
Oil and Gas Division

Field Review #2520

DATE October 11, 1985  
WELL NO. JK-1245  
API NO. 47 - 095 - 1120

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc. DESIGNATED AGENT Richard Reddecliff  
Address P.O. Box 48 - Buckhannon, WV 26201 Address P.O. Box 48 - Buckhannon, WV 26201  
Telephone 472-9403 Telephone 472-9403  
LANDOWNER Roy A. Meredith SOIL CONS. DISTRICT Upper Ohio  
Revegetation to be carried out by J&J Enterprises, Inc. (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan: 10-15-85 (Date)  
R. Lloyd Justice (SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Drainage Ditch</u> (A) Spacing <u>Inside Rd. Cuts</u> Page Ref. Manual <u>2-12</u>	Structure <u>Diversion Ditch</u> (1) Material <u>Earthen</u> Page Ref. Manual <u>2-12</u>
Structure <u>Road culvert</u> (B) Spacing <u>8"-16" as required</u> Page Ref. Manual <u>2-7</u>	Structure <u>Rip-Rap</u> (2) Material <u>Logs &amp;/or Stone</u> Page Ref. Manual <u>2-16</u>
Structure _____ (C) Spacing _____ Page Ref. Manual _____	Structure _____ (3) Material _____ Page Ref. Manual _____

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

REVEGETATION

Treatment Area I	
Lime	<u>3</u> Tons/acre or correct to pH <u>6.5</u>
Fertilizer	<u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch Hay	<u>2</u> Tons/acre
Seed*	<u>KY-31</u> <u>30</u> lbs/acre <u>Annual Rye</u> <u>10</u> lbs/acre <u>Red Clover</u> <u>5</u> lbs/acre



Treatment Area II	
Lime	<u>3</u> Tons/acre or correct to pH <u>6.5</u>
Fertilizer	<u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch Hay	<u>2</u> Tons/acre
Seed*	<u>Orchard Grass</u> <u>30</u> lbs/acre <u>Ladino Clover</u> <u>5</u> lbs/acre <u>Red Clover</u> <u>5</u> lbs/acre

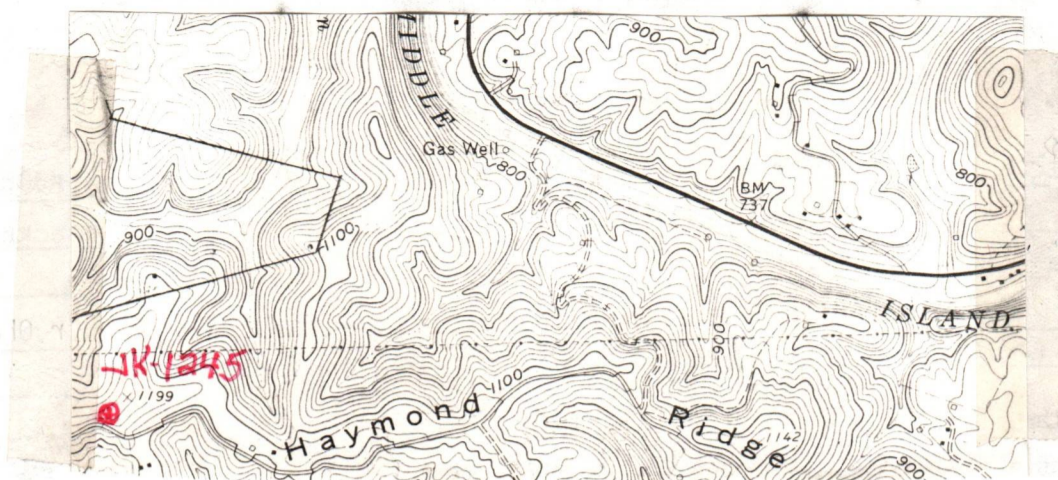
\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

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

PLAN PREPARED BY Smith Land Surveying 05/03/2024  
ADDRESS 111 South Street  
Glenville, WV 263351  
PHONE NO. 304-462-5634

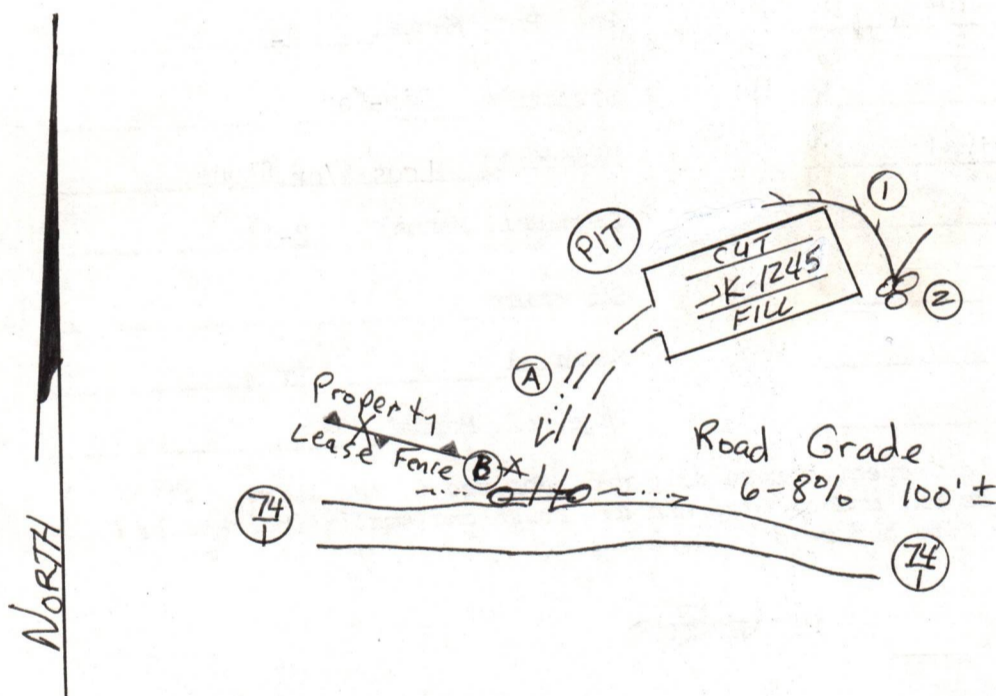
ATTACH OR PHOTOCOPY SECTION  
OF INVOLVED TOPOGRAPHIC MAP.  
QUADRANGLE West Union 7.5'

LEGEND  
WELL SITE  ACCESS ROAD 



WELL SITE PLAN

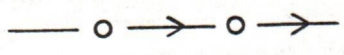
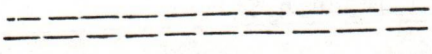
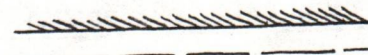
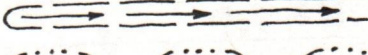


Sketch to include well location, existing access road, roads to be constructed, well-site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

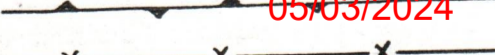
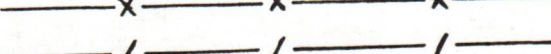
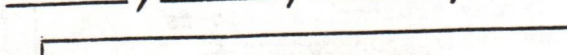





Drilling pit may vary in location other than that shown on this plan and/or other pits may be added due to soil type, newly discovered water systems, and the encounter of rock when building location.

Access road subject to change between company and land owner, or aquirement of right-of-way. If change is made, a revised reclamation plan will be submitted. All cuts 2:1 slope. All topsoil to be stockpiled and used in reclamation. All grades for roads and locations as well as sediment structures shown on drawing.

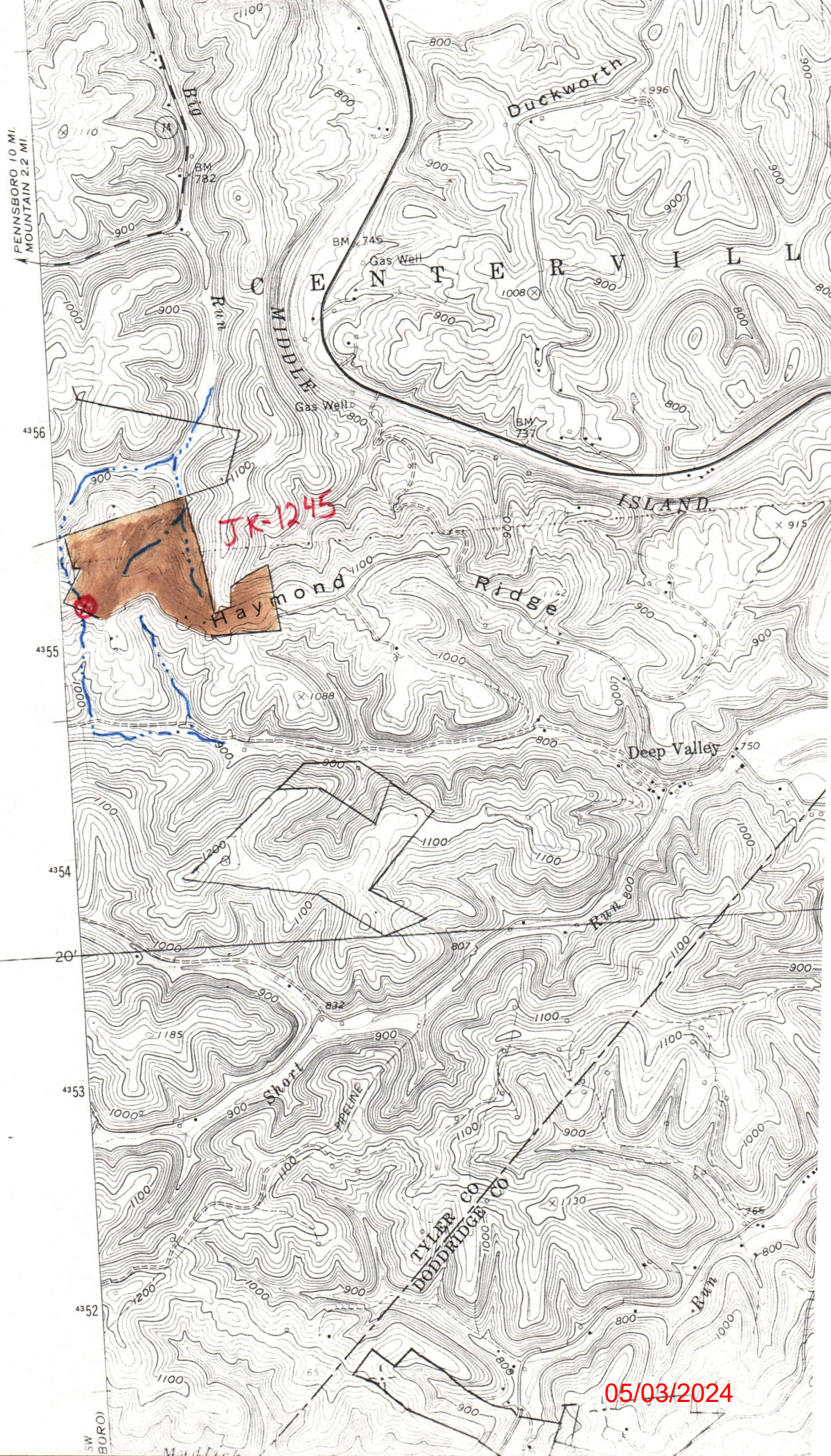
LEGEND

DRAIN PIPE   
ROAD   
DIVERSION   
WATERWAY   
STREAM   
OPEN DITCH 

PROPERTY BOUNDARY  05/03/2024  
EXISTING FENCE   
PLANNED FENCE   
BUILDING   
WET SPOT   
SPRING 

**SLS**  
SMITH LAND SURVEYING CO.  
111 SOUTH ST.  
GLENVILLE, WV. 26351

PENNSBORO 10 MI.  
MOUNTAIN 2.2 MI.



JK-1245

4356

4355

4354

20'

4353

4352

SW BORO

05/03/2024

INFORMATION SUPPLIED UNDER CODE § 22B-1-8(d)

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book page</u>
* Roy A. Meredith	J&J Enterprises, Inc.	6/28 of 59.39 Ac.	257/527
		1/4	
		of 10.92 Ac.	257/527
		1/4	
		of 5.81 Ac.	257/527
		1/4	
		of 4.75 Ac.	257/527

\* Leasing rights

59.39 Ac.

Roy A. Meredith	6/28
Ralph J. Washburn	9/28
Caroline Hill	2/28
Mary J. Gregg	2/28
Zelpha Doak	2/28
W.M. Ash	7/28

10.92 Ac.

Roy A. Meredith	1/4
Ralph J. Washburn	1/2
W.M. Ash	1/4

5.81 Ac.

Roy A. Meredith	1/4
Ralph J. Washburn	1/2
W.M. Ash	1/4

4.75 Ac.

Roy A. Meredith	1/4
Ralph J. Washburn	1/2
W.M. Ash	1/4





1) Date: October 14, 1985  
 2) Operator's Well No. JK-1245  
 3) API Well No. 47 095-1120  
 State County Permit

**RECEIVED**  
 OCT 28 1985

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

- 4) WELL TYPE: Gas  / Oil   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )  
 5) LOCATION: Elevation: 1186' / Watershed: Big Run  
 District: Centerville / County: Tyler / Quadrangle: West Union 7.5'  
 6) WELL OPERATOR: J&J Enterprises, Inc. CODE: 24150 7) DESIGNATED AGENT: Richard M. Reddecliff  
 Address: P.O. Box 48 / Address: P.O. Box 48  
Buckhannon, WV 26201 / Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Robert Lowther  
 Address: General Delivery / Address: P.O. Box 48  
Middlebourne, WV 26419 / Buckhannon, WV 26201  
 9) DRILLING CONTRACTOR: Name: S.W. Jack Drilling Co.  
 Address: P.O. 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, Rhine Street  
 12) Estimated depth of completed well, 5995' feet  
 13) Approximate strata depths: Fresh, 125' feet; salt, N/A feet.  
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes  / No

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CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
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Coal	8 5/8	ERW	23	X		1786'	1786'	To Surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5995'	5945'	300 Sacks or as required	Depths set 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 (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 10-25-85  
 Its \_\_\_\_\_ Date \_\_\_\_\_

X Roy A. Meredith  
 (Signature) Date 10/25/85  
Carol Ann Meredith  
 (Signature) Date 05/03/2024

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.

05/03/2024

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

RECEIVED  
OCT 28 1985

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 JK-1245
5. Latitude 39-22-30 Longitude 80-50-00
6. NPDES # WV0073343 7. Dept. Oil & Gas Permit NO. 47-095-1120
8. County Tyler 9. Nearest Town Deep Valley
10. Nearest Stream Big Run 11. Tributary of Middle Island-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.

05/03/2024

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 J. Emmert DATE 8-29-85

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.

WAIVER

I, Roy Meredith landowner, have no objections to the disposal of the Pit Waste Water on my property for Well # JK-1245.

SIGNED Roy A. Meredith

DATE 10-25-85

SIGNED Carol Ann Meredith

05/03/2024



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 18, 1985  
Operator's Well No. JK-1245  
Farm Roy Meredith  
API No. 47 - 095 - 1120

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: 1186 Watershed Big Run  
District: Centerville County Tyler Quadrangle West Union 7.5

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 Roy A. Meredith  
ADDRESS Rt. # 1, Box 233, Washington, WV 26181  
MINERAL RIGHTS OWNER Same as surface  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
ADDRESS General Delivery Middlebourne, WV 26181  
PERMIT ISSUED 10/28/85  
DRILLING COMMENCED 11/5/85  
DRILLING COMPLETED 11/21/85  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30.40	30.40	0 sks.
9 5/8			
8 5/8	1347.60	1347.60	290 sks.
7			
5 1/2			
4 1/2	5467.20	5467.20	275 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Rhine Street Depth \_\_\_\_\_ feet  
Depth of completed well 5667 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 690 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 5358-73 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Combined Final open flow 1,143 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1650 psig (surface measurement) after 96 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Benson & Riley Pay zone depth 5064-85 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)

Tyler 1120

4664-85  
5064-85  
05/03/2024

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

Alexander: 5358-60 ( 7 holes) 5371-73 ( 7 holes)  
 Fracturing: 450 sks. 20/40 sand: 500 gal. acid: 520 Bbls. fluid.  
 Benson: 5064-65 ( 8 holes)  
 Fracturing: 400 sks. 20/40 sand: 500 gal. acid: 475 Bbls. fluid.  
 Riley: 4664-66 ( 3 holes) 4674-75 ( 6 holes) 4684-85 ( 4 holes) 4694-95 ( 6 holes)  
 Fracturing: 500 sks. 20/40 sand: 500 gal. acid: 600 gal. acid.

BOTTOM HOLE PRESSURE Pf=Pwe<sup>XGLS</sup>

$$t=60 + (5467 \times 0.0075) + 459.7 = 560.7 \quad X = \frac{1}{53.34} = \frac{1}{(53.34)(560.7)} = \frac{1}{29907} = 0.0000334$$

$$Pf = (1650)(2.72)(0.0000334)(0.661)(5018.5)(0.9) \quad Pf = (1650)(2.72)(0.0997) = (1650)(1.105)$$

Pf=1823 psi

**WELL LOG**

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red rock			0	20	
Sandy shale & sand			20	288	
Sand & sandy shale			288	835	1/2" stream @ 690'
Sandy shale & red rock			835	1055	
Sandy shale & sand			1055	1595	Gas ck @ 2259 No show
Sandy shale & sand			1595	1740	
Sand & sandy shale			1740	2015	Gas ck @ 2507 No show
Little Lime			2015	2025	
Sandy shale			2025	2040	Gas ck @ 3559 No show
Big Lime			2040	2115	
Sand & sandy shale			2115	2540	Gas ck @ 4705 No show
Sandy shale & sand			2540	3815	
Sandy shale			3915	4664	Gas ck @ 5076 No show
Riley			4664	4695	
Sandy shale			4695	5064	Gas ck @ 5387 NO show
Benson			5064	5065	
Sandy shale & sand			5065	5358	Gas ck @ collars 4/10-2" w/water
Alexander			5358	5373	84,000 cu.ft.
Sandy shale & sand			5373	5667	
				T.D.	

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Daniel F. Stark

05/03/2024

Date: 12/18/85

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 all encountered in the drilling of a well."

✓ IR-26  
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

10-28-85

JUN 17 1986

WELL TYPE Gas  
ELEVATION \_\_\_\_\_  
DISTRICT Centerville  
QUADRANGLE \_\_\_\_\_  
COUNTY Tyler

API# 47-095-1120  
OPERATOR J & J Enterprises  
TELEPHONE \_\_\_\_\_  
FARM Meredit  
WELL # JK 1245

SURFACE OWNER \_\_\_\_\_ COMMENTS \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
LOCATION \_\_\_\_\_ NOTIFIED \_\_\_\_\_ DRILLING COMMENCED \_\_\_\_\_

WATER DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
COAL DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

CASING

Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up  
TD \_\_\_\_\_ feet on \_\_\_\_\_

PLUGGING

Type	From	To	Pipe Removed

Pit Discharge date: \_\_\_\_\_ Type \_\_\_\_\_  
Field analysis                      ph \_\_\_\_\_      fe \_\_\_\_\_      cl \_\_\_\_\_  
Well Record received \_\_\_\_\_

Date Released June 13, 1986

R. A. Lowther 05/03/2024  
Inspector's signature

API# 47 \_\_\_\_\_ - \_\_\_\_\_

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes



FERC-121

1.0 API well number (If not available, leave blank. 11 digits.)	47-095-1120			
2.0 Type of determination being sought (Use the codes located on the front of this form.)	103 Section of NGPA	N/A Category Code		
3.0 Depth of the deepest completion location (Only enter sections 103 or 107 in 2.0 above.)	5373 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. Name		009480 Section Code	
	P.O. Box 697 Street			
	Indiana	Pa.	15701	
	Co.	State	Zip Code	
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for line name.)	Centerville			
	Field Name Tyler		WV State	
	County			
(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-1245			
(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			
	Name			
(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 (Set of filing date. Complete all 3 separate places.)	3.056	.278	---	3.330
8.0 Maximum level rate (Set of filing date. Complete all 3 separate places.)	3.056	.278	---	3.330
9.0 Person responsible for this registration	J. H. McElwain			
Agency Use Only	Name <i>James H. McElwain</i>		Title Exec. V. President	
Date Registered for Filing Agency	12-20-85			
Date Registered by FERC	(412) 349-6000		File # Number 05/03/2024	
	Date registration is completed			

DEC 23 1985

05/03/2024

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

JAN 15 1986

Date: Dec. 20, 1985

AGENCY USE ONLY

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

24150

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

629

Address: \_\_\_\_\_  
(Street or P.O. Box)

(City) \_\_\_\_\_ (State) \_\_\_\_\_ (Zip Code) \_\_\_\_\_

FERC Seller Code 009480

WELL DETERMINATION FILE NUMBER  
851223-1030-095-1120  
Use Above File Number on all  
Communications Relating to This Well

Designated Agent: Richard Reddick

Address: P.O. Box 48

Buckhannon, WVA 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

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

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

102 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

103 New Onshore Production Well

103 New Onshore Production Well

107 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**  
  
05/03/2024

RECEIVED  
DEC 23 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

Date Dec. 20, 1985  
Operator's Well No. JK-1245  
API Well No. 47 - 095 - 1120  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL

NGPA 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 1186  
Watershed Big Run  
Center, Centerville County Tyler Quad W Union

GAS PURCHASER Purchaser not yet designated

Gas Purchase Contract No. \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

ADDRESS \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: November 5, 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  $Pf = Pwe \times GLS$

$$t=60 + (5467 \times 0.0075) + 459.7 = 560.7 \times \frac{1}{53.34} = \frac{1}{(53.34)(560.7)} = \frac{1}{29907} = 0.0000334$$

$$Pf = (1650)(2.72)(0.0000334)(0.661)(5018.5)(0.9)$$

$$Pf = (1650)(2.72)(0.0997) = (1650)(1.105)$$

Pf=1823 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 was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

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 20 day of Dec, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20 day of Dec, 1985

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

[NOTARIAL SEAL]

Vicki L. Vanderberg  
Notary Public

**05/03/2024**  
VICKI L. VANDERBERG, NOTARY PUBLIC  
INDIANA BOROUGHS, INDIANA COUNTY  
MY COMMISSION EXPIRES JAN. 23, 1988  
Member, Pennsylvania Association of Notaries

1.0 API well number: (If not available, leave blank. 11 digits.)	47-095-1120			
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 of sections 103 or 107 in 2.0 above.)	5373 feet			
4.0 Name, address and code number of applicant (35 letters and digits maximum. If code number not available, leave blank.)	J & J Enterprises, Inc. P.O. Box 697 Indiana Pa. 15701 State Zip Code			009480 Section Code
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Centerville Field Name Tyler 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-1245			
(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 Name Section Code			
(b) Date of the contract.	Mo. Day Yr.			
(c) Estimated annual production:	MMcf			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price (Actual filing date. Complete in all applicable places.)	6.112	.278	---	6.390
8.0 Maximum lease rate (Actual filing date. Complete in all applicable places.)	6.112	.278	---	6.390
9.0 Person responsible for this application	J. H. McElwain Exec.V. President Name Title <i>James H. McElwain</i> Signature 12-20-85 Date (412) 349-6000 Phone Number			

Agency Use Only  
Date filed for this filing Agency  
**DEC 23 1985**  
Date of receipt by FERC

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

JAN 15 1985

Date: Dec 20 1985

Dev. 24150

AGENCY USE ONLY

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

Address: P.O. Box 697

Indiana, PA. 15701

WELL DETERMINATION FILE NUMBER  
851223-1073-095-1120  
Use Above File Number on all  
Communications Relating to This Well

Gas Purchaser Contract No. \_\_\_\_\_

Date of Contract \_\_\_\_\_  
(Month, day and year)

First Purchaser: Purchaser not yet designated

Designated Agent: Richard Reddcliff

Address: \_\_\_\_\_  
(Street or P.O. Box)

Address: P.O. Box 48

(City) \_\_\_\_\_ (State) \_\_\_\_\_ (Zip Code) \_\_\_\_\_

Buckhannon, WVA 26201

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: *Vicki Vanderberg*

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

Telephone: 412 349-6800  
(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
- 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 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED  
05/03/2024

RECEIVED  
DEC 23 1985

**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.: 47-095-1120 Well Name: Meredith (JK-1245)

West Virginia Office of Oil and Gas County: Tyler  
 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 =  $\frac{160}{130}$  \* API Units
2. Remarks: Fluid level caused a shift in the GR Value from 160 API Units to 130 API Units @ 5465'

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

1. GR Value =  $\frac{112}{91}$  \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \frac{160}{130} \text{ *)}} = \frac{112}{91}$  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***		
2575'	5465'	2890'	74'
5465'	5589'	124'	0'

Total Devonian Interval 3014'

Total Less Than 0.7 (Shale Base) 74'

% Less Than 0.7 (Shale Base Line) =  $\frac{0.0245 \times 100}{7} = \underline{\underline{2.45}}\%$

05/03/2024

\*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 1186  
Watershed Big Run  
Centerville Dist. Tyler County W. 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: November 5, 1985

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

BOTTOM HOLE PRESSURE Pf=PweXGLS

$$t=60 + (5467 \times 0.0075) + 459.7 = 560.7 \quad x = \frac{1}{53.34} = \frac{1}{(53.34)(560.7)} = \frac{1}{29907} = 0.0000334$$

$$Pf = (1650)(2.72)(0.0000334)(0.661)(5018.5)(0.9) = (1650)(2.72)(0.0997) = (1650)(1.105)$$

Pf=1823 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 20 day of Dec, 19 85 05/03/2024 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20 day of Dec, 19 85.  
My term of office expires on the 23 day of January, 19 88.

(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

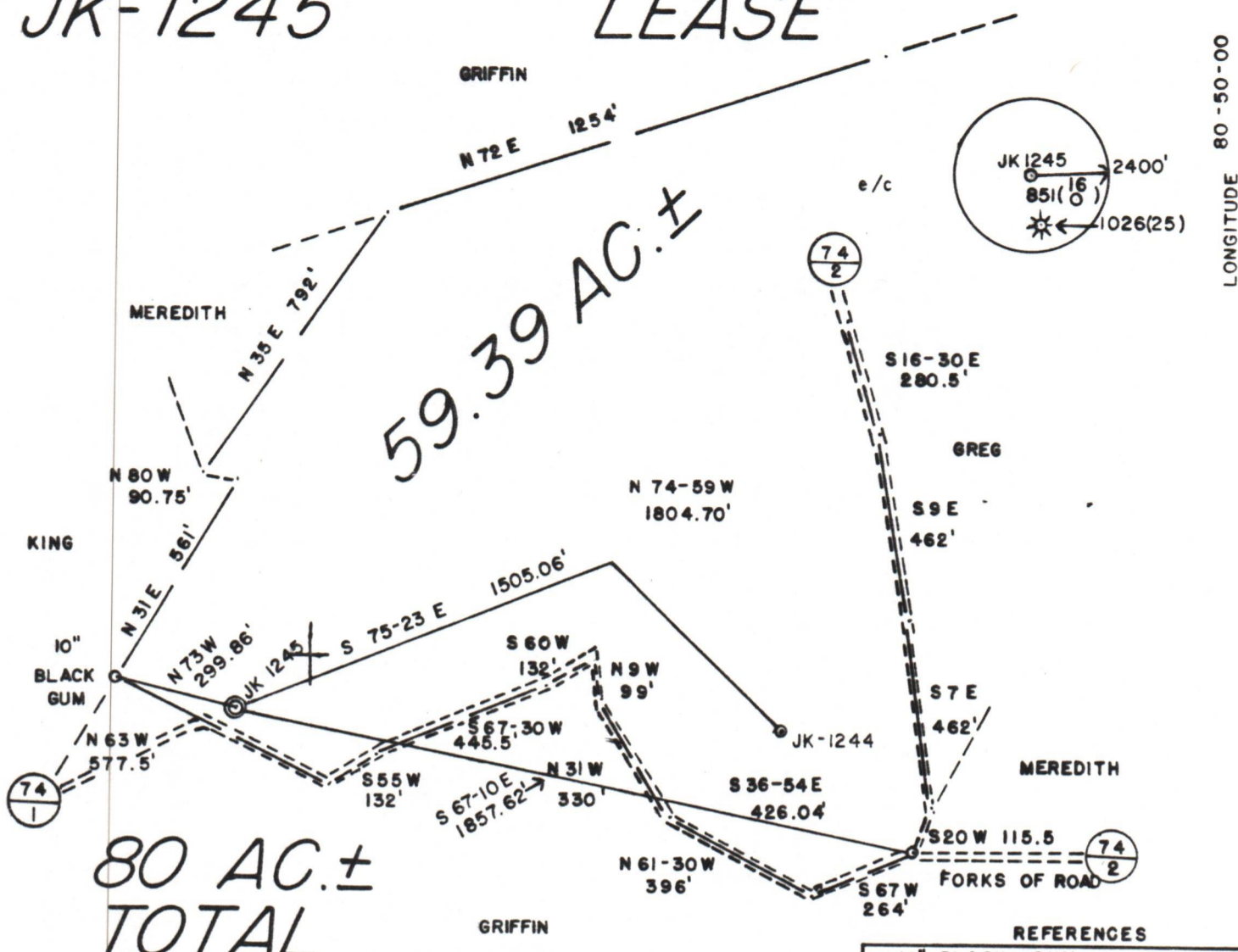
# WELL NO. JK-1245

# MEREDITH LEASE

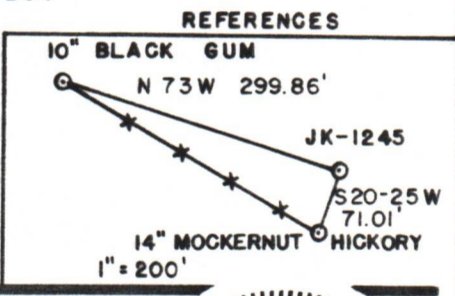
NORTH

00-55-08 LONGITUDE

0166'



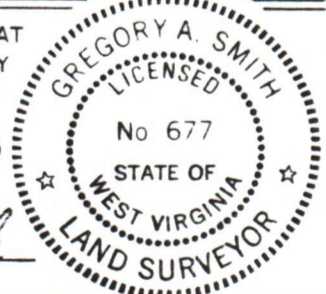
80 AC.±  
TOTAL



**SLS** SMITH LAND SURVEYING

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE OCT. 18, 1985  
 OPERATORS WELL NO. JK-1245  
 API WELL NO. 47-095-1120  
 STATE COUNTY PERMIT

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 ENERGY.  
 L.L.S. 677 Gregory A. Smith



MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 17-73  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1199' SCALE 1" = 400'



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1186' WATERSHED BIG RUN  
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'  
 SURFACE OWNER ROY A. MEREDITH ACREAGE 59.39  
 OIL & GAS ROYALTY OWNER ROY A. MEREDITH, et. al. LEASE ACREAGE 59.39 OF 80 **05/03/2024**  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION RHINE STREET  
 ESTIMATED DEPTH 5995'

WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD M. REDDECLIFF  
 ADDRESS P.O. BOX 48 BUCKHANNON, WY 26101

COUNTY NAME  
 PERMIT