FORM WW-2(B) **FILE COPY**
(Obverse)
7/85

RECEIVED
SEP 30 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: September 26, 19 85
2) Operator's Well No. JK-1242
3) API Well No. 47 -095-1114
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: 1087' Watershed: Big Run
District: Centerville / County: Tyler Quadrangle: West Union 7.5' 670
6) WELL OPERATOR J & J Enterprises, CODE: 24150
Address P.O. Box 48
Buckhannon, WV 26210
7) DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48
Buckhannon, WV 26201
8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Lowther
Address General Delivery
Middlebourne, WV 26149
9) DRILLING CONTRACTOR:
Name S.W. Jack Drilling Co.
Address P.O. Box 48
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, Rhine Street
12) Estimated depth of completed well, 5995' feet
13) Approximate trata depths: Fresh, 130' feet; salt, N/A feet.
14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes ____/ No X /
15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	11 3/4	H-40	42	X		~~30~~ 250'	~~0~~ 250'	~~0 Sacks~~ CTS by rule 15-01	Kinds
Fresh water	8 5/8	ERW	23	X		~~1087~~ 1587'	~~1087~~ 1587	To Surface by rule 15-01	
Coal	8 5/8	ERW	23	X		~~1087~~ 1587'	~~1087~~ 1587	To Surface	Sizes
Intermediate									
Production	4½	J-55	10.5	X		5995'	5945'	300 Sacks	Depths set
Tubing								or as required by rule 15-01	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1114 September 30 19 85
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 September 30, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
C	AB	MN	MN	2079	MN	MN	

Margaret T. Lesse
Director, Division of Oil and Gas

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

File

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

FORM WW-2(B) **FILE COPY**
Reverse

OFFICE USE ONLY

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

OFFICE USE ONLY

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

	Date		Date(s)
Application received		Follow-up inspection(s)	
Well work started		"	"
Completion of the drilling process		"	"
Well Record received		"	"
Reclamation completed		"	"

OTHER INSPECTIONS

Reason: _____

Reason: _____

05/03/2024

FORM WW-2A
Obverse

1) Date: September 26, 19 85
Operator's
2) Well No. JK-1242
3) API Well No. 47 - 095 - 1114
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 O.W. Griffin
Address P.O. Box 3025
Parkersburg, WV 26101

(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 erosin 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.

RECEIVED
SEP 30 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

This 26 day of September, 19 85,
My commission expires 12/7, 19 92.
Gregory A. Smith
Notary Public, Gilmer County,
State of West Virginia

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

05/03/2024

INSTRUCTIONS TO APPLICANT

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, iiii) 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.

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

#2514

WW-9

RECEIVED
SEP 30 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of ENERGY
Oil and Gas Division

DATE Sept. 24, 1985
WELL NO. JK-1242
API NO. 47 - 095 - 1114

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc.
Address P.O. Box 48 - Buckhannon, WV 26201
Telephone 472-9403

DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48 - Buckhannon, WV 26201
Telephone 472-9403

LANDOWNER O.W. Griffin
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: 9-26-85 (Date)

Lloyd Tustin (SCD Agent)

ACCESS ROAD

Structure Drainage Ditch (A)
Spacing Along inside rd. cuts
Page Ref. Manual 2-12

Structure Cross Drains (B)
Spacing as per table 1 in manual 2-4
Page Ref. Manual 2-1

Structure Road Culverts (C)
Spacing One 16" as shown
Page Ref. Manual 2-7

LOCATION

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2-12

Structure Sediment Barrier (2)
Material Logs &/or Brush
Page Ref. Manual 2-16

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

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Ladino Clover 5 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.*

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

PLAN PREPARED BY Smith Land Surveying P.C.
ADDRESS 111 South Street
Glenville, WV 263351
PHONE NO. 304-462-5634

05/03/2024

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

LEGEND

WELL SITE ⊕ ACCESS ROAD ———

05/03/2024

OPEN DITCH

GLENVILLE, WV. 26351

FORM WW - 2A
continue

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book page
* Mary E. Micheal	J & J Enterprises, Inc.	1/12	256/436
* Irma G. McKelvey	J & J Enterprises, Inc.	1/12	256/438
* Hattie Scheffer, et.vir.	J & J Enterprises, Inc.	1/12	256/440
* Herma H. Hess, et.ux.	J & J Enterprises, Inc.	1/12	256/442
* Alena Kay Molnar, et.ux.	J & J Enterprises, Inc.	1/12	256/444
* Garnet I. Hess	J & J Enterprises, Inc.	1/12	256/446
Edith Griffin		1/4 Oil	
H.H. Furbee, hrs.		1/4	
W.H. Carter, hrs.		1/4	

* Leased Rights

05/03/2024

FORM WW-2(B)
(Obverse)
7-85

SURFACE OWNER'S COPY

1) Date: September 26, 19 85
2) Operator's Well No. JK-1242
3) API Well No. 47 — State — County — Permit

RECEIVED
SEP 30 1985
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 X /
B (If "Gas", Production X / Underground storage ____ / Deep ____ / Shallow X /)

5) LOCATION: Elevation: 1087' Watershed: Big Run
District: Centerville County: Tyler Quadrangle: West Union 7.5'

6) WELL OPERATOR J & J Enterprises, CODE: 24150
Address P.O. Box 48
Buckhannon, WV 26210

7) DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48
Buckhannon, WV 26201

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Lowther
Address General Delivery
Middlebourne, WV 26149

9) DRILLING CONTRACTOR:
Name S.W. Jack Drilling Co.
Address P.O. Box 48
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, Rhine Street
12) Estimated depth of completed well, 5995' feet
13) Approximate trata depths: Fresh, 130' feet; salt, N/A feet.
14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes ____ / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	11 3/4	H-40	42	X		30'	0'	0 Sacks	Kinds
Fresh water	8 ~~5/8~~	ERW	23	X		1087'	1087'	To Surface	
Coal	8 5/8	ERW	23	X		1087'	1087'	To Surface	Sizes
Intermediate									
Production	4½	J-55	10.5	X		5995'	5945'	300 Sacks	Depths set
Tubing								or as required 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 (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.)

NAME: ____

By ____

Its ____ Date ____

(For execution by natural persons)

X Alf Griffin (Signature) Date 9-26-85

X Edith Griffin (Signature) Date 9-26-85

05/03/2024

FORM WW-2(B) SURFACE OWNER'S COPY
Reverse

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.

FORM WW-70

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

RECEIVED
SEP 30 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

STATE OF West Virginia,
COUNTY OF Tyler:

The undersigned, being first duly sworn, says that the undersigned served a Site and Drilling Pit Registration Application X true and complete copy of all sides of--

(1) Notice on Form WW-2(A) X / Form WW-3(A) / Form WW-4(A) /
(2) Application on Form WW-2(B) / Form WW-3(B) / Form WW-4(B) /
(3) Plat showing the well location on Form WW-6, and
(4) Construction and Reclamation Plan on Form WW-9 (unless the application is to plug a well)

--all with respect to operator's Well No. JK-1242 located in Centerville District, Tyler County, West Virginia, upon the person or organization named--

O. W. Griffin & Edith Griffin

--by delivering the same in Tyler County, State of West Virginia on the 26th day of Septembe-, 19 85 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[X] 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 _____.

Edward Summerfield
(Signature of person executing service)

Taken, subscribed and sworn before me this 26th day of September, 19 85.
My commission expires 9/30/94.

Joyce Davis
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

05/03/2024

FORM IV ANNC

IR-26
Obverse

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

9-30-85

INSPECTOR'S PERMIT SUMMARY FORM

JUN 17 1986

WELL TYPE _____ API# 47- 095 - 1114

ELEVATION _____ OPERATOR J & J Enterprises

DISTRICT Centerville TELEPHONE _____

QUADRANGLE _____ FARM Griffin

COUNTY Tyler WELL # JK 1242

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
Inspector's signature

107-5 Production enhancement
107-6 New Tight Formation
107-7 Recompletion Tight Formation

RECEIVED
DEC 11 1995
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

QUALIFIED 05/03/2024

Date Received

Determination Date

FORM IV-55WC
(12-78)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

Date Dec 10 1985

Operator's
Well No. JV 1345

API Well No.

47 - 095 - 1114
State County Permit

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 1082

Watershed Big Run

Centerville

Dist. _____ County Tyler Quad. Middlebourne

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: October 22 1985

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

BOTTOM HOLE PRESSURE $Pf=Pwe^{XGLS}$

$t=60 + (0.0075 \times 5965) + 459.7=564$ $X=53.35 \times 564 \frac{1}{=30113} \frac{1}{=0.000033}$ $Pf=1400 \times 2.72^{(0.000}$

$(0.661)(5212)(0.9)$ $=1400 \times 2.72^{0.1}=1400 \times 1.1$

1540 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)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(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 10 day of Dec, 1985, has acknowledged the same before me, in my county aforesaid.

05/03/2024

Given under my hand and official seal this 10 day of Dec, 1985.

My term of office expires on the 23 day of January, 19 ~~84~~ 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

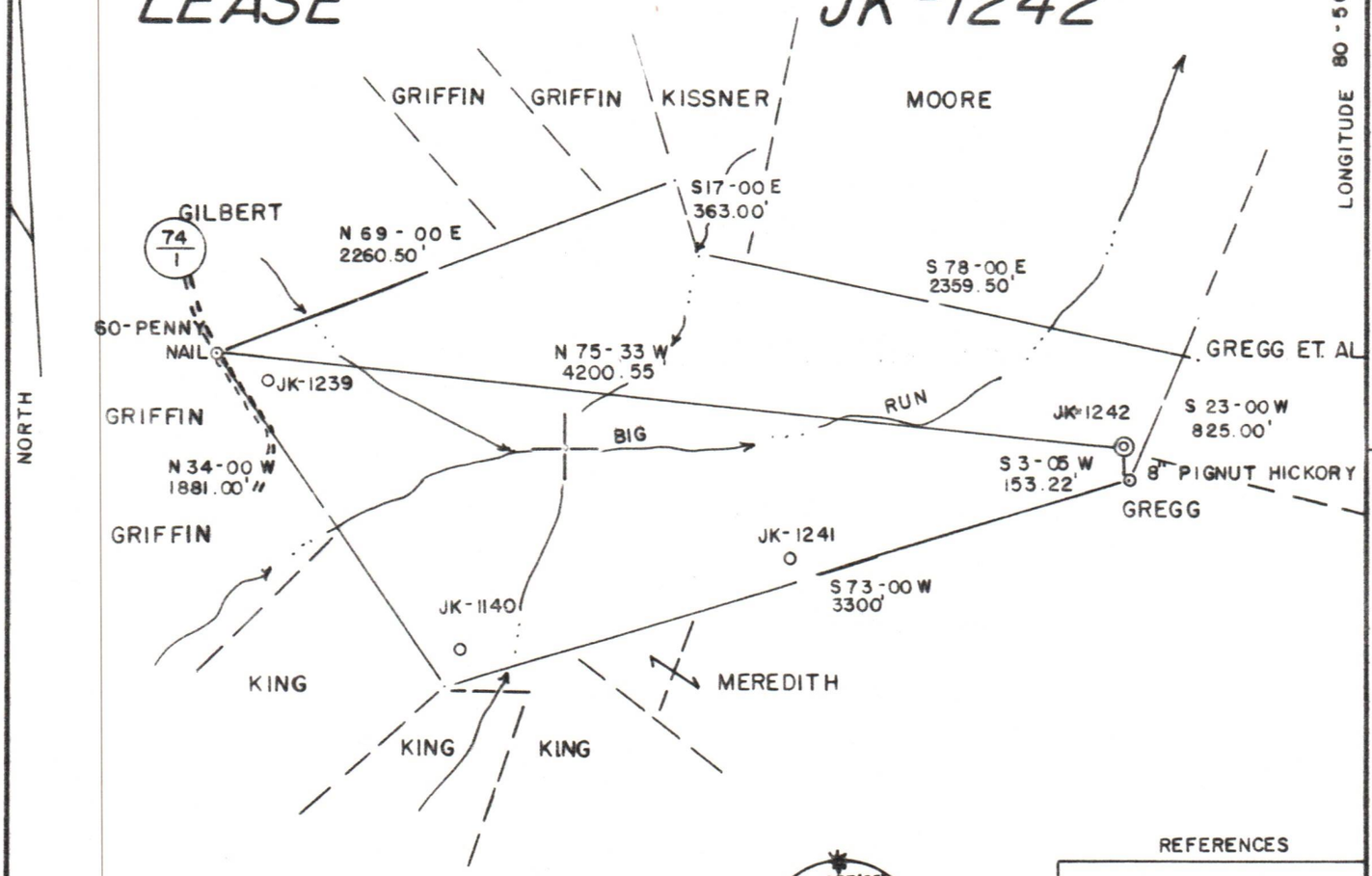
05/03/2024

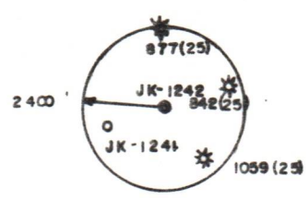
FORM WW 6

9310'

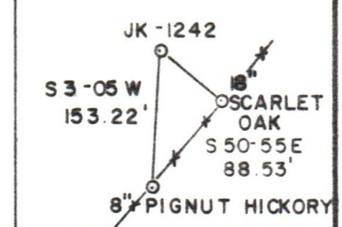
LATITUDE 39-22-30

HESS LEASE WELL NO. JK-1242





REFERENCES



125 ACRES ±

SLS SMITH LAND SURVEYING

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

DATE SEPT. 9, 19 85

OPERATORS WELL NO. JK-1242

API WELL NO.

47 - 095 - 1114
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

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA LAND SURVEYOR

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 17-65

PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. = 1199' SCALE 1" = 800'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1087' WATERSHED BIG RUN

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'

SURFACE OWNER O.W. GRIFFIN ACREAGE 125

OIL & GAS ROYALTY OWNER GARNET I. HESS, et. al. LEASE ACREAGE 125 05/03/2024

PROPOSED LEASE NO. JJ-2118

WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION RHINE STREET

ESTIMATED DEPTH 5995'

WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF

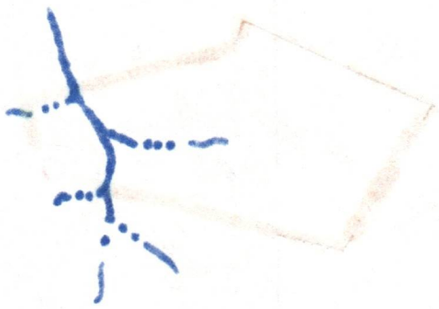
ADDRESS P.O. BOX 48, BUCKHANNON, WV 26201 ADDRESS P.O. BOX 48, BUCKHANNON, WV 26201

COUNTY NAME

PERMIT

SLS

68861



05/03/2024

#2514

WW-9

RECEIVED
SEP 30 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of ENERGY
Oil and Gas Division

DATE Sept. 24, 1985
WELL NO. JK-1242
API NO. 47 - 095 - 1114

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc.
Address P.O. Box 48 - Buckhannon, WV 26201
Telephone 472-9403

DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48 - Buckhannon, WV 26201
Telephone 472-9403

LANDOWNER O.W. Griffin

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: 9-26-85 (Date)

Lloyd Tustin (SCD Agent)

ACCESS ROAD

Structure Drainage Ditch (A)
Spacing Along inside rd. cuts
Page Ref. Manual 2-12

Structure Cross Drains (B)
Spacing as per table 1 in manual 2-4
Page Ref. Manual 2-1

Structure Road Culverts (C)
Spacing One 16" as shown
Page Ref. Manual 2-7

LOCATION

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2-12

Structure Sediment Barrier (2)
Material Logs &/or Brush
Page Ref. Manual 2-16

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

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

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

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

05/03/2024

FORM IV-35
(REVERSE)

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

Riley: Perforations: 4540-41 (4 holes) 4559-60(4 holes) 4574-76(3 holes)4585-87(8 holes)
Fracturing: 315 sks. 20/40 sand: 100 gallon acid.
Benson: Perforations: 4959-60 (8 holes)
Fracturing:400 sks. 20/40 sand:500 gallon acid: 398 Bbls. fluid.
Alexander: Perforations: 5258-60 (8 holes)
Fracturing: 300 sks. 20/40 sand: 500 gallon acid: 398 Bbls. fluid.
Devonian Shale: Perforations: 5875-83 (16 holes)
Fracturing: 300 sks. 20/40 sand: 275 Bbls. fluid.

BOTTOM HOLE PRESSURE $Pf=Pwe^{XGLS}$

$t=60 + (0.0075 \times 5965) + 459.7=564$ $X=53.35 \times 564 = \frac{1}{30113} = 0.000033$ $Pf=1400 \times 2.72^{(0.000033)(0.661)(5212)(0.9)}=1400 \times 2.72^{0.1}=1400 \times 1.1$

1540 psi

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Sandy shale & red rock	0	10	
Shale, sand & sandy shale	10	270	Damp @ 260'
Coal	270	274	
Sandy shale & sand	274	320	Dusting @ 325'
Sandy shale & red rock	320	560	
Sand & sandy shale	560	740	Wet @ 589'
Sandy shale & sand	740	1215	
Coal	1215	1219	Dusting @ 1370'
Sandy shale & sand	1219	1332	
Sandy shale & white sand	1332	1580	Gas ck @ 2040 16/10-2" w/water 169,000 cu.ft.
Sandy shale & sand	1580	1740	
Sandy shale	1740	1915	
Little Lime	1915	1930	Gas ck @ 2473 24/10-2" w/water 207,000 cu.ft.
Shale	1930	1935	
Big Lime	1935	1990	
Sand & sandy shale	1990	2390	Gas ck @ 2937 24/10-2" w/water 207,000 cu.ft
Sandy shale & sand	2390	3035	
Sand & sandy shale	3035	3995	
Sand & sandy shale	3995	4540	Gas ck @ 3468 20/10-2" w/water 189,000 cu.ft.
Riley	4540	4587	
Sand & shale	4587	4959	
Benson	4959	4960	Gas ck @ 3995 18/10-2" w/water 179,000 cu.ft.
Sand & shale	4960	5258	
Alexander	5258	5260	
Sand & shale	5260	5875	Gas ck @ 4613 32/10-2" w/water 239,000 cu.ft.
Devonian Shale	5875	5883	
Sandy shale	5883	5976	
		T.D.	Gas ck @ 4978 30/10-2" w/water 231,000 cu.ft.
			Gas ck @ 5292 30/10-2" w/water 231,000 cu.ft.
			Gas ck @ collars 18/10-2" w/wat 179,000 cu.ft.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
Well Operator

05/03/2024

By: Robert Dahlin - Geologist

Date: 12/6/85

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

IR-26
Obverse

RECEIVED
DEPARTMENT OF ENER
OIL AND GAS

JUN 17 1986

INSPECTOR'S PERMIT SUMMARY FORM

9-30-85

WELL TYPE _____ API# 47- 095 - 1114

ELEVATION _____ OPERATOR J & J Enterprises

DISTRICT Centerville TELEPHONE _____

QUADRANGLE _____ FARM Griffin

COUNTY Tyler WELL # JK 1242

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
Inspector's signature

05/03/2024

IR-26
Reverse

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

05/03/2024

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-095-1114
2.0 Type of determination being sought (Use the codes listed on the front of this form.)	103 (Section of NGPA) — N/A (Category Code)
3.0 Depth of the deepest completion location. (Only applicable to sections 103 or 107 in 2.0 above.)	1087 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. — 009480 (Seller Code) Name: P.O. Box 697 Street: Indiana — Pa. — 15701 City — State — Zip 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 — WV County — 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-1242
(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 — Buyer Code
(b) Date of the contract.	Mo. Day Yr.
(c) Estimated annual production:	MMcf

	(a) Base Price ($/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	3.056	.278		3.330
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	3.056	.278		3.330

9.0 Person responsible for this application

Agency Use Only

Date received by Jurisdictional Agency: DEC 11 1985

Date received by FERC:

J. H. McElwain — Name

Exec.V.President — Title

James H. McElwain — Signature

12-10-85 — Date application is completed

(412) 349-6800 — Phone Number

05/03/2024

FORM IV-48WC
(02-84)

STATE OF WEST VIRGINIA

35912-69

DEPARTMENT OF MINES, OIL AND GAS DIVISION

DEC 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Dec 10, 1985

24150

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

851211 -1030-085-1114

Use Above File Number on all Communications Relating to This Well

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)

P 629

First Purchaser: Purchaser not yet designated

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

_____
(City) (State) (Zip Code)

Designated Agent: Richard Boddecliff

Address: P.O. Box 48

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
(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 Catagory 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

103 New Onshore Production Well
- X 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

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

RECEIVED
DEC 11 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AGENCY USE ONLY

QUALIFIED 05/03/2024

Date Received

Determination Date

FORM IV-54WC
(12-78)

Date Dec 10, 1985

Operator's Well No. JK-1242

API Well No. 47 - 095 - 1114
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

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 1082
Watershed Big Run
Dist. Centerville County Tyler Quad. W Union

GAS PURCHASER Purcahser not yet designated
ADDRESS

Gas Purchase Contract No.
Meter Chart Code
Date of Contract

* * * * * * * * * * * * * * * * * * *

Date surface drilling was begun: October 27, 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 with a spring gauge

$\frac{1}{53.35 \times 564}$ $\frac{1}{=30113}$ =0.000033 Pf=1400 x $2.72^{(0.000}$

0 x 1.1

AFFIDAVIT

I, James H. n, having been first sworn according to law state that surface drilling of the wel this determination is sought was begun on or after February 19, 1977; the well satisfies ap te or federal well spacing requirements and the well is not within a proration unit, i at the time surface drilling began, which was applicable to the reservoir from which gas i produced and which applied to any other well producing was in commercial quantities surface drilling began on or after February 19, 1977, and which was capable of producing rcial quantities. I state, further, that I have concluded, to the best of my informatic and belief, that the well for which this determination is sought is a new onshore prod that I am not aware of any information not described in the application which i th 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 10 day of Dec, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 10 day of Dec, 1985.

My ~~XXXXXXXXXXX~~ Commission expires on the 23 day of January, 19 ~~84~~ 88.

[NOTARIAL SEAL]

Vicki L Vanderberg
Notary Public

05/03/2024

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

0

05/03/2024

FORM IV-48WC
(02-84)

STATE OF WEST VIRGINIA

35912 - 69

DEPARTMENT OF MINES, OIL AND GAS DIVISION

DEC 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Dec 10, 1985

24150

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

851211 -1073-095-1114

Use Above File Number on all Communications Relating to This Well

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)

P 629

First Purchaser: Purchaser not yet designated

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

_____
(City) (State) (Zip Code)

Designated Agent: Richard Boddecliff

Address: P.O. Box 48

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
(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 Catagory 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

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
- X 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

RECEIVED
DEC 11 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AGENCY USE ONLY

QUALIFIED

05/03/2024

Date Received

Determination Date

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-095-1114
2.0 Type of determination being sought (Use the codes listed on the front of this form.)	107 — Section of NGPA; N/A — Category Code
3.0 Depth of the deepest completion location. (Only applicable to 103 or 107 in 2.0 above.)	1087 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; 00480 — Seller Code P.O. Box 697 — Street Indiana — City; Pa. — State; 15701 — Zip 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-1242
(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; Buyer Code
(b) Date of the contract.	Mo. Day Yr.
(c) Estimated annual production:	MMcf

		(a) Base Price ($/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)		6.112	.278		6.390
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)		6.112	.278		6.390

9.0 Person responsible for this application.

Agency Use Only

Date Received by Jurisdictional Agency: DEC 11 1985

Date Received by FERC:

J. H. McElwain — Name; Exec.V.President — Title

James H. McElwain — Signature

12-10-85 — Date Application is Completed

(412) 349-6800 — Phone Number

05/03/2024

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.: 47-095-1114 Well Name: Griffin (JK-1242)

West Virginia Office of Oil and Gas References: SJA File No. County: Tyler

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 = 165 * API Units
2. Remarks:

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

1. GR Value = 115.5* API Units
2. Calculation: 0.7 (GR Value at Base Line)
   0.7 (165 *) = 115.5 API Units

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

Interval From**	Interval To***	Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
2469'	5973'	3504'	92.5'

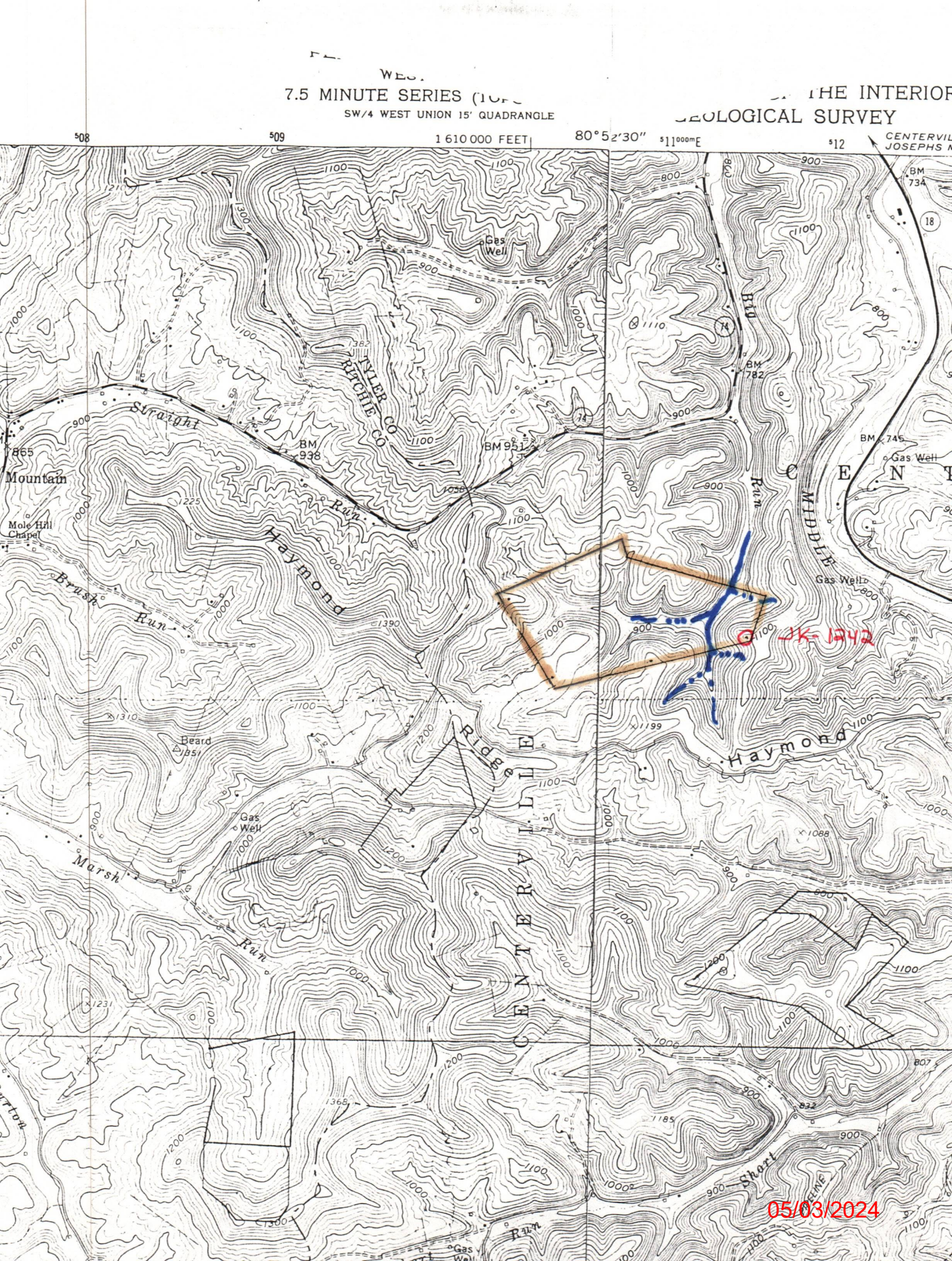
Total Devonial Interval 3504'

tal Less Than 0.7 (Shale Base) 92.5'

Less Than 0.7 (Shale Base Line) = 0.0264x 100 = 2.64 %

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.


7.5 MINUTE SERIES
SW/4 WEST UNION 15' QUADRANGLE
THE INTERIOR
GEOLOGICAL SURVEY
1 610 000 FEET
80°52'30"
Straight Run
Haymond Run
Brush Run
Marsh Run
Big Run
Short Run
Ridge
CENTERVILLE
MIDDLE
TYLER CO
RITCHIE CO
Mountain
Mole Hill Chapel
Beard
Gas Well
BM 938
BM 951
BM 782
BM 734
BM 745
JK-1242
05/03/2024

05/03/2024

IV-35
Rev 8-81

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 6, 1985
Operator's
Well No. JK-1242
Farm Garnett Hess
API No. 47 - 095 - 1114

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: 1087 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 O.W. Griffin
ADDRESS P.O. Box 3025, Parkersburg, WV 26101
MINERAL RIGHTS OWNER Garnett Hess, Hrs.
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS General Delivery Middlebourne, WV 26149
PERMIT ISSUED 9/30/85
DRILLING COMMENCED 10/27/85
DRILLING COMPLETED 11/2/85
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"	14.60	0	0 sks.
9 5/8			
8 5/8	1264.90	1264.90	270 sks.
7			
5 1/2			
4 1/2	5964.65	5964.65	400 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Rhine Street Depth ___ feet
Depth of completed well 5976 feet Rotary x / Cable Tools ___
Water strata depth: Fresh 260,325,582 feet; Salt 0 feet
Coal seam depths: 270-74, 1215-19 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 5875-83 feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Combined Final open flow 1,409 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1400 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Alexander, Benson & Riley Pay zone depth 4540-87, 4959-60, 5258-60 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 114

FORM IV-35
(REVERSE)

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

Riley: Perforations: 4540-41 (4 holes) 4559-60(4 holes) 4574-76(3 holes)4585-87(8 holes)
Fracturing: 315 sks. 20/40 sand: 100 gallon acid.
Benson: Perforations: 4959-60 (8 holes)
Fracturing:400 sks. 20/40 sand:500 gallon acid: 398 Bbls. fluid.
Alexander: Perforations: 5258-60 (8 holes)
Fracturing: 300 sks. 20/40 sand: 500 gallon acid: 398 Bbls. fluid.
Devonian Shale: Perforations: 5875-83 (16 holes)
Fracturing: 300 sks. 20/40 sand: 275 Bbls. fluid.

BOTTOM HOLE PRESSURE $Pf=Pwe^{XGLS}$

$t=60 + (0.0075 \times 5965) + 459.7=564$ $X=53.35 \times 564 \frac{1}{(0.661)(5212)(0.9)}=30113 \frac{1}{}=0.000033$ $Pf=1400 \times 2.72^{(0.000033)}=1400 \times 2.72^{0.1}=1400 \times 1.1$

1540 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
Sandy shale & red rock	0	10	
Shale, sand & sandy shale	10	270	Damp @ 260'
Coal	270	274	
Sandy shale & sand	274	320	Dusting @ 325'
Sandy shale & red rock	320	560	
Sand & sandy shale	560	740	Wet @ 589'
Sandy shale & sand	740	1215	
Coal	1215	1219	Dusting @ 1370'
Sandy shale & sand	1219	1332	
Sandy shale & white sand	1332	1580	Gas ck @ 2040 16/10-2" w/water 169,000 cu.ft.
Sandy shale & sand	1580	1740	
Sandy shale	1740	1915	
Little Lime	1915	1930	Gas ck @ 2473 24/10-2" w/water 207,000 cu.ft.
Shale	1930	1935	
Big Lime	1935	1990	
Sand & sandy shale	1990	2390	Gas ck @ 2937 24/10-2" w/water 207,000 cu.ft
Sandy shale & sand	2390	3035	
Sand & sandy shale	3035	3995	
Sand & sandy shale	3995	4540	Gas ck @ 3468 20/10-2" w/water 189,000 cu.ft.
Riley	4540	4587	
Sand & shale	4587	4959	
Benson	4959	4960	Gas ck @ 3995 18/10-2" w/water 179,000 cu.ft.
Sand & shale	4960	5258	
Alexander	5258	5260	
Sand & shale	5260	5875	Gas ck @ 4613 32/10-2" w/water 239,000 cu.ft.
Devonian Shale	5875	5883	
Sandy shale	5883	5976	
		T.D.	Gas ck @ 4978 30/10-2" w/water 231,000 cu.ft.
			Gas ck @ 5292 30/10-2" w/water 231,000 cu.ft.
			Gas ck @ collars 18/10-2" w/water 179,000 cu.ft.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
Well Operator

By: Robert Dahlin - Geologist

Date: 12/6/85

05/03/2024

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

#2514

WW-9

RECEIVED
SEP 30 1985
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of ENERGY
Oil and Gas Division

DATE Sept. 24, 1985
WELL NO. JK-1242
API NO. 47 - 095 - 1114

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc.
Address P.O. Box 48 - Buckhannon, WV 26201
Telephone 472-9403

DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48 - Buckhannon, WV 26201
Telephone 472-9403

LANDOWNER O.W. Griffin
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: 9-26-85 (Date)

Lloyd Tustin (SCD Agent)

ACCESS ROAD

Structure Drainage Ditch (A)
Spacing Along inside rd. cuts
Page Ref. Manual 2-12

Structure Cross Drains (B)
Spacing as per table 1 in manual 2-4
Page Ref. Manual 2-1

Structure Road Culverts (C)
Spacing One 16" as shown
Page Ref. Manual 2-7

LOCATION

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2-12

Structure Sediment Barrier (2)
Material Logs &/or Brush
Page Ref. Manual 2-16

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

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Ladino Clover 5 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.*

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

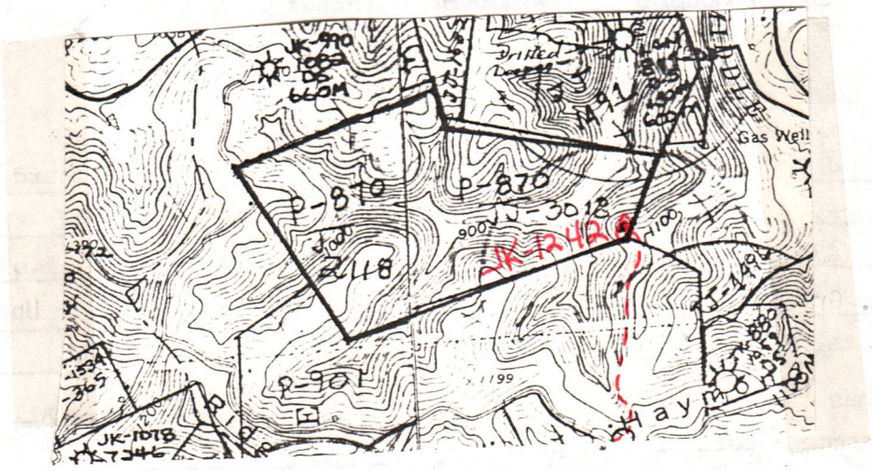
PLAN PREPARED BY Smith Land Surveying Co.
ADDRESS 111 South Street
Glenville, WV 263351
PHONE NO. 304-462-5634

05/03/2024

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

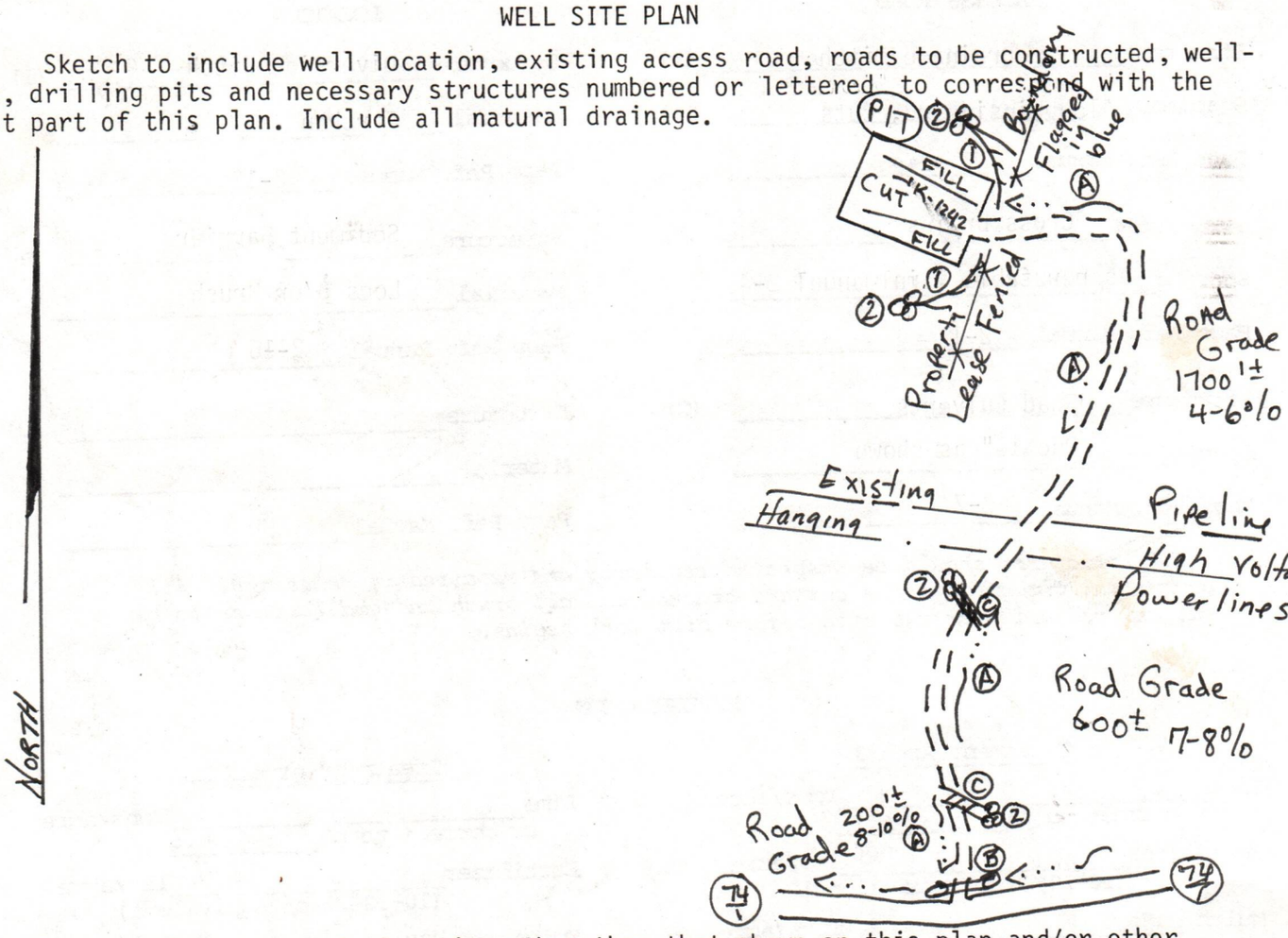
LEGEND

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
EXISTING FENCE
PLANNED FENCE
BUILDING
WET SPOT
SPRING

05/03/2024

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