

FILE COPY
RECEIVED
SEP 30 1985



1) Date: September 26, 1985
2) Operator's Well No. JK-1240
3) API Well No. 47 -095-1115
State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DEPARTMENT OF ENERGY
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: 1100' Watershed: Big Run
District: Centerville / County: Tyler / Quadrangle: Pennsboro 7,5'58
- 6) WELL OPERATOR J & J Enterprises, CODE: 24150 7) DESIGNATED AGENT Richard 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 26149 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 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 X /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	11 3/4	H-40	42	X		<u>250'</u>	<u>250'</u>	<u>0 Sacks</u> <u>CT's by rule 15.05</u>
Fresh water	8 5/8	ERW	23	X		<u>1100' / 1600'</u>	<u>1100' / 1600'</u>	<u>To Surface</u> <u>by rule 15.05</u>
Coal	8 5/8	ERW	23	X		<u>1100' / 1600'</u>	<u>1100' / 1600'</u>	<u>To Surface</u> <u>Sizes</u>
Intermediate								
Production	4 1/2	J-55	10.5	X		<u>5995'</u>	<u>5945'</u>	<u>300 Sacks</u> <u>Depths set</u>
Tubing								<u>or as required by rule 15-01</u>
Lin...								<u>Perforations:</u>
								<u>Top</u> <u>Bottom</u>

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1115

September 30 1985
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

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

Permit expires September 30, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>AKB</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>2081</u>	WPCP: <u>MH</u>	S&E:	Other:
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NOTE: Keep one copy of this permit posted at the drilling location.

Margaret J. Wasse
Director, Division of Oil and Gas

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

05/03/2024 File

OFFICE USE ONLY

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

1. WELL TYPE: A. Shallow B. Intermediate C. Deep

2. LOCATION: A. On-site B. Off-site

3. WELL OPERATOR: J. Enterprises, code: 24150
Address: P.O. Box 48, Buckingham, WV 26201

4. WELL INSPECTOR TO BE NOTIFIED: Robert Lowther, General Delivery, Middlebourne, WV 26149
Address: P.O. Box 48, Buckingham, WV 26201

5. PROPOSED WELL WORK: Drill Re-drill Plug and abandon Other (specify in well log)

6. APPROXIMATE DEPTH OF COMPLETED WELL: 125' 150' 200' 250' 300' 350' 400' 450' 500' 550' 600' 650' 700' 750' 800' 850' 900' 950' 1000' Other

7. APPROXIMATE DATE OF COMPLETION: 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

DATE	DESCRIPTION	BY
12/15/87	Drill to surface	John Doe
12/15/87	Drill to surface	John Doe
12/15/87	Drill to surface	John Doe

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: _____

1) Date: September 26, 1985
Operator's
2) Well No. JK-1240
3) API Well No. 47 - 095 - 1113
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 _____

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.

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

6) EXTRACTION RIGHTS

Check and provide one of the following:
 included in 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.

truth of the information on the Notice Application is verified and sworn to and Notice is signed on behalf of the Well operator in my County and State by Richard Reddecliff on the 27 day of September, 1985, my commission expires 12/7, 1992.
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

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.

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

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>
* 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.vir.	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	

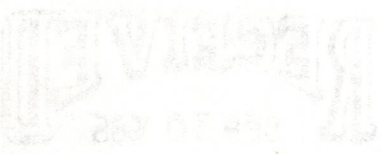
* Leasing Rights

By _____
Its _____ Date _____

(Signature) _____ Date 05/03/2024
9-26-85

X Edith Griffin
(Signature)

Date 9-26-85



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

STATE OF VIRGINIA
COURT OF COMMON PLEAS

County of _____
Case No. _____

Plaintiff, _____
vs.
Defendant, _____
The undersigned, _____, being duly sworn, deposes and says that _____ is the true and correct copy of all records of _____ as shown to the undersigned by _____ on this _____ day of _____, 20____.

Subscribed and sworn to before me on this _____ day of _____, 20____, at _____, County of _____, State of Virginia.

[COMPLETION OF THE AFFIDAVIT]

I, _____, being duly sworn, depose and say that _____ is the true and correct copy of all records of _____ as shown to the undersigned by _____ on this _____ day of _____, 20____.

[Signature]
Signature of person executing affidavit

Subscribed and sworn before me this _____ day of _____, 20____, at _____, County of _____, State of Virginia.

[Signature]
Notary Public

PRINTED IN OUTSIDE THE STATE

05/03/2024

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

RECEIVED
SEP 30 1995
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

IV-
Rev

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 Hess Lease JK-1240
5. Latitude 39-22-30 Longitude 80-52-30
6. NPDES # WV0073343 7. Dept. Oil & Gas Permit NO. 47-095-1115
8. County Tyler 9. Nearest Town Centerville
10. Nearest Stream Big Run 11. Tributary of Straight Run
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.

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____
Combined Final open flow 696 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1325 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Alexander, Benson Pay zone depth 5264-77 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

05/03/2024

(Continue on reverse side)

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

Devonian Shale: Perforations: 5876-84 (16 holes)
 Fracturing: 300 sks. 20/40 sand: 408 Bbls. fluid.
 Alexander: Perforations: 5264-66 (8 holes) 5275-77 (8 holes)
 Fracturing: 450 sks. 20/40 sand:500 gal. acid: 518 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

$$t=60 + (5940.7 \times 0.0075) + 459.7 = 564.25 \quad X = \frac{1}{53.34T} = \frac{1}{53.34(564.25)} = \frac{1}{30,097} = 0.000033$$

$$Pf = (1325)(2.72)(0.000033)(0.661)(5428.5)(0.9) \quad Pf = (1325)(2.72)(0.1066) = (1325)(1.11)$$

Pf=1470 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
Top soil & shale			0	15	
Sand & sandy shale			15	170	Damp @ 290'
Sandy shale, red rock & sand			170	365	
Sand, shale & red rock			365	745	½" stream @ 740'
Sandy shale & sand			745	1520	
Sand & sandy shale			1520	1670	½" stream @ 1615'
Sandy shale			1670	1920	
Little Lime			1920	1940	Gas ck @ 2475 No show
Big Lime			1940	2005	
Sand & sandy shale			2005	2420	Gas ck @ 3467 No show
Sandy shale & sand			2420	2880	
Sandy shale & sand			2880	3455	Gas ck @ 4739 No show
Sandy shale & sand			3455	4560	
Brown sand			4560	4720	Gas ck @ 4987 No show
Sandy shale & sand			4720	5264	
Alexander			5264	5277	Gas ck @ 5295 No show
Sandy shale & sand			5277	5876	
Devonian Shale			5876	5884	
Sandy shale			5884	5978	
				T.D.	

(Attach separate sheets as necessary)

J & J Enterprises, Inc.

Well Operator

05/03/2024

By: Daniel F. Stark Daniel F. Stark-

Date: _____ 11/25 /85 Asst. Geologist

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

IR-26
Obverse

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DEPARTMENT OF ENERGY
OIL AND GAS

INSPECTOR'S PERMIT SUMMARY FORM

9-30-85

JUN 17 1986

WELL TYPE _____
ELEVATION _____
DISTRICT _____
QUADRANGLE _____
COUNTY _____

API# 47-095-1115
OPERATOR J & J Enterprises
TELEPHONE _____
FARM Griffin
WELL # JK 1240

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

FERC-121

1.0 API well number: (If not available, leave blank. 11 digits.)	47-095-1115			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	103 <small>Section of NGPA</small>	n/a <small>Category Code</small>		
3.0 Depth of the deepest completion location (Only enter if sections 103 or 107 in 2.0 above.)	5884 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. <small>Name</small>		009480 <small>Section Code</small>	
	P.O. Box 697			
	Indiana, <small>State</small>	Pa. <small>State</small>	15701 <small>Zip Code</small>	
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 <small>State</small>		
(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-1240			
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	Purchaser not yet designated			
(b) Date of the contract.	Mo. Day Yr.			
(c) Estimated annual production:	MMcf			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)
7.0 Contract price (Actual filing date. Complete in 3 decimal places.)	3.582	.278	---	3.860
8.0 Maximum royalty rate (Actual filing date. Complete in 3 decimal places.)	3.582	.278	---	3.860
9.0 Person responsible for this application	J. H. McElwain <small>Name</small> Exec.V.President <small>Title</small>			
Agency Use Only	<i>James H. McElwain</i> <small>Signature</small>			
Date filed for this application	11-26-85 (412) 349-6800 <small>Date of Filing is Completed</small> <small>File Number</small>			
Date received by FERC	05/03/2024			

NOV 27 1985

05/03/2024

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

36718-64

DEC 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Nov 26, 1985 24150

AGENCY USE ONLY

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

WELL DETERMINATION FILE NUMBER

Address: P.O. Box 697

851127 -1030-095- 1115

Indiana, PA. 15701

Use Above File Number on all
Communications Relating to This Well

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

Designated Agent: Richard Reddick

First Purchaser: Purchaser to be Determined

Address: P.O. Box 48

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

Buckhannon, WVA 26201

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

FERC Seller Code 009480

FERC Buyer Code _____

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

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

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

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

- 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
NOV 27 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Date Nov 26, 1985

Operator's Well No. JK-1240

API Well No. 47 - 095 - 1115
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 1100
Watershed Big Run
District Centerville County Tyler quad Pennsboro

GAS PURCHASER Purchaser not yet designated
ADDRESS _____

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

* * * * *

Date surface drilling was begun: October 18, 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.

BOTTOM HOLE PRESSURE $Pf = Pwe \times GLS$

$t=60 + (5940.7 \times 0.0075) + 459.7 = 564.25 \quad X = \frac{1}{53.34T} = \frac{1}{53.34(564.25)} = \frac{1}{30,097} = 0.000033$

$Pf = (1325)(2.72)(0.000033)(0.661)(5428.5)(0.9) \quad Pf = (1325)(2.72)(0.1066) = (1325)(1.11)$

Pf=1470 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 26 day of Nov, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 26 day of Nov, 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

0

WIKI L. VANDERKAM
INDIANA BOROUGHS - DEKALB COUNTY
MY COMMISSION EXPIRES JAN 23 198
Notary Public - Association of Notary



05/03/2024

FERC-121

1.0 API well number:
(If not available, leave blank. 11 digits.)

47-095-1115

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 deepest completion
location. (Only enter if sections 103
or 107 in 2.0 above.)

5884 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
Survey Code

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

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-1240

(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 Survey 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 (a) & (d)) (decimal places)	6.112	.278	---	6.390
8.0 Maximum lease rate (Actual filing date: Complete (a) & (d)) (decimal places)	6.112	.278	---	6.390

9.0 Person responsible for this application

Agency Use Only

Date filed and by whom: Agency

DEC - 4 1985

Name: J. H. McElwain Title: Exec. V. President

James H. McElwain

Date: 12-2-85 File Number: (412) 349-6800

Date preparation is completed: 05/03/2024

(02-84)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

35884 - 66

DEC 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Dec 2, 1985 24150

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

Address: P.O. Box 697

Indiana, PA. 15701

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: P629
Purchaser to be Determined

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

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

FERC Seller Code 009480

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

851204 - 1073 - 095 - 1115

Use Above File Number on all Communications Relating to This Well

Designated Agent: Richard Redcliff

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
- 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

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

AGENCY USE ONLY

05/03/2024

RECEIVED
DEC - 4 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Operator: J & J Enterprises, Inc. Agent: Richard Reddecliff

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-095-1115 Well Name: Griffin (JK-1240)

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 = $\frac{165}{100}$ * API Units
2. Remarks: Fluid level caused a shift in the GR Value from 165 API Units to 100 API Units @ 5837'

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

1. GR Value = $\frac{115.5}{70}$ * API Units
2. Calculation: 0.7 (GR Value at Base Line)
 $0.7 \left(\frac{165}{100} * \right) = \frac{115.5}{70}$ 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***		

2503'	5837'	3334'	103'
-------	-------	-------	------

5837'	5872'	35'	0'
-------	-------	-----	----

Total Devonian Interval 3369'

Total Less Than 0.7 (Shale Base) 103'

Less Than 0.7 (Shale Base Line) = $0.0306 \times 100 = \underline{3.06} \%$ 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.

Date: Dec 2, 1985
Operator's Well No. JK-1240
API Well No.
47 - 095 - 1115
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 1100
Watershed Big Run
Centerville Dist. Centerville County Tyler Quad. Pennsboro
Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

WELL OPERATOR J & J Enterprises, Inc.
ADDRESS P.O. Box 697
Indiana, PA 15701
GAS PURCHASER Not Yet Designated
ADDRESS _____

* * * * *

Date surface drilling began: October 18, 1985

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

BOTTOM HOLE PRESSURE Pf=PweXGLS
 $t=60 + (5940.7 \times 0.0075) + 459.7 = 564.25$ $X = \frac{1}{53.34T} = \frac{1}{53.34(564.25)} = \frac{1}{30,097} = 0.000033$
 $Pf = (1325)(2.72)(0.000033)(0.661)(5428.5)(0.9)$ $Pf = (1325)(2.72)^{(0.1066)} = (1325)(1.11)$
Pf=1470 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 2 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 2 day of Dec, 1985.
My term of office expires on the 23 day of January, 1988.

(NOTARIAL SEAL)

Vicki L. Vanderberg, NOTARY PUBLIC
IN AND FOR THE COUNTY OF INDIANA
MY COMMISSION EXPIRES JAN. 23, 1988
Notary Public, Pennsylvania Association of Notaries

0

.....

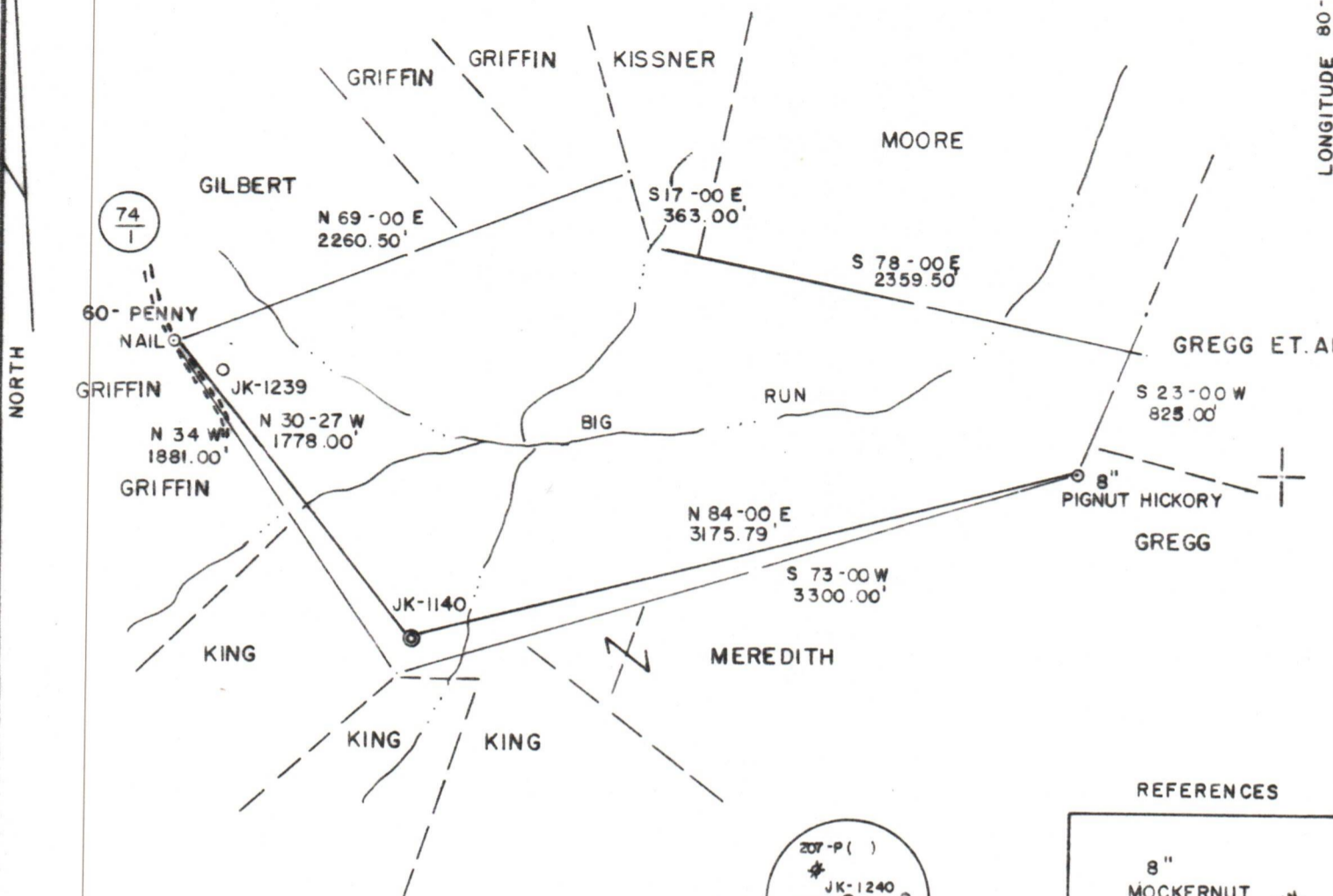
05/03/2024



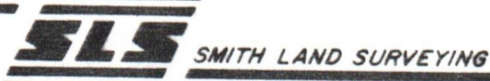
PAENSAVANIA Association of Notaries
NOTARIAL EXPIRES JAN 23, 1988
A BONDING AGENCY PUBLIC
ADIRABA COUNTY

HESS LEASE

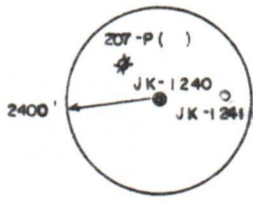
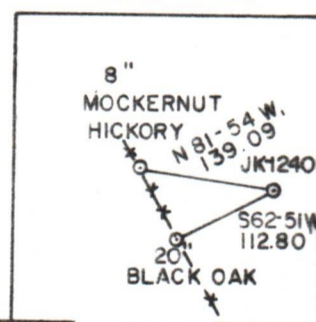
WELL NO. JK-1240



125 ACRES ±



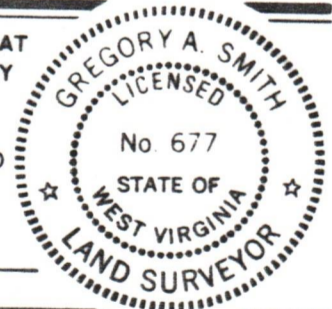
REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE SEPT. 9, 1985
 OPERATORS WELL NO. JK-1240
 API WELL NO. 47-095-1115
 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. Gregory A. Smith
 677



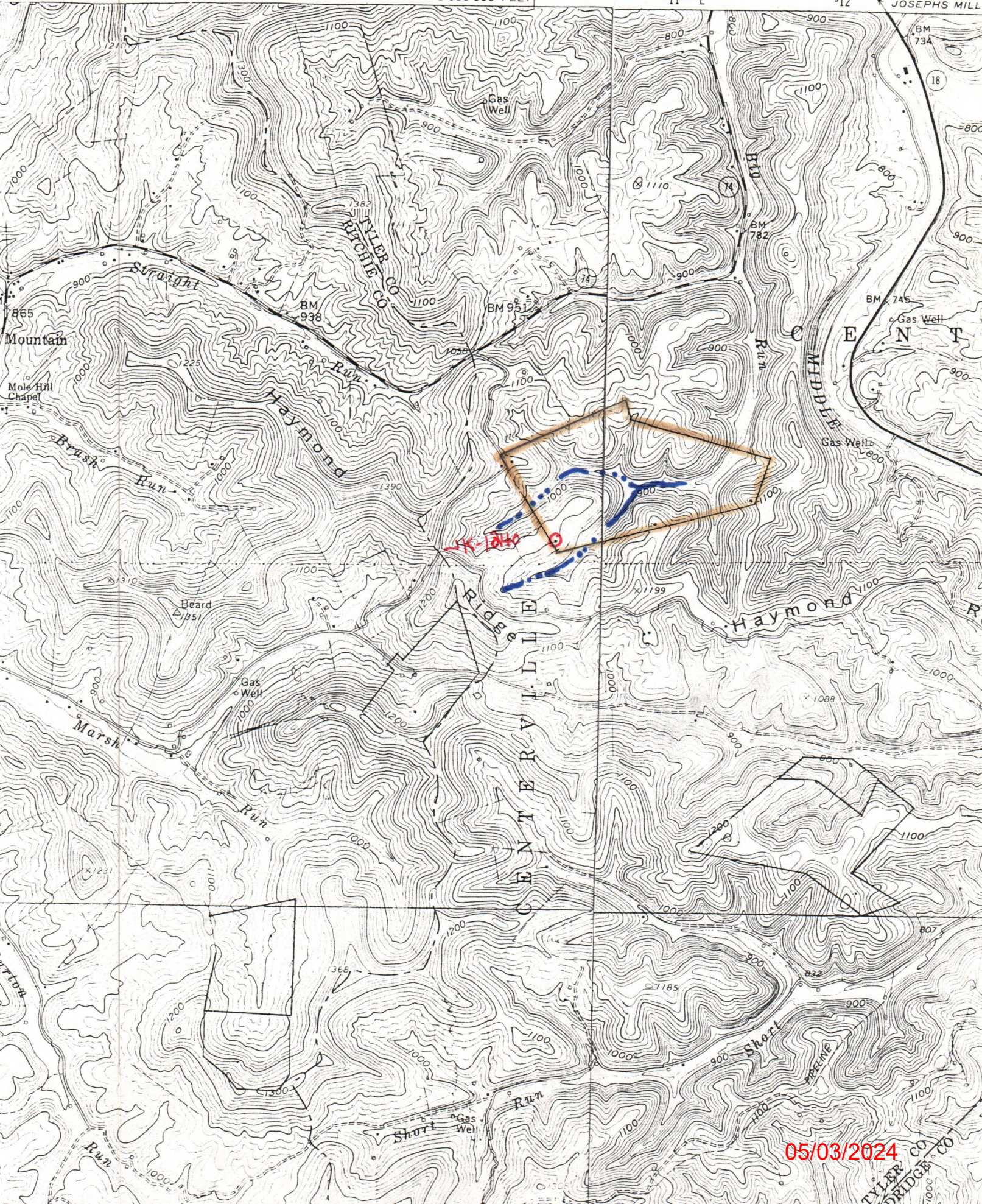
MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 17-65
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV.=1199' SCALE 1"=800'



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1100' WATERSHED BIG RUN
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE PENNSBORO 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 WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE 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



05/03/2024

TYLER CO
BRIDGE CO



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 :

Site and Drilling Pit Registration Application X

The undersigned, being first duly sworn, says that the undersigned served a 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.s JK-1239 & JK-1240 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 September, 1985 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 Summers (Signature of person executing service)

Taken, subscribed and sworn before me this 26th day of September, 1985. My commission expires 9/30/94

Joyce Davis Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)



1) Date: September 26, 1985
 2) Operator's Well No. JK-1240
 3) API Well No. 47
 State _____ County _____ Permit _____

RECEIVED
SEP 30 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 X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1100' / Watershed: Big Run
 District: Centerville / County: Tyler / Quadrangle: Pennsboro 7,5'
- 6) WELL OPERATOR J & J Enterprises, CODE: 24150 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 / Address P.O. Box 48
Buckhannon, WV 26201 / Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther / Name S.W. Jack Drilling Co.
 Address General Delivery / Address P.O. Box 48
Middlebourne, WV 26149 / 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, 125' 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				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	
Conductor	11 3/4	H-40	42	X		30'	0'	0 Sacks	Kinds
Fresh water	8 5/8	ERW	23	X		1100'	1100'	To Surface	
Coal	8 5/8	ERW	23	X		1100'	1100'	To Surface	Sizes
Intermediate									
Production	4 1/2	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 (1) a Notice of Application for a Well Work Permit on Form WW-2(A), (2) an Application for a Well Work Permit on Form WW-2(B), (3) a survey plat on Form WW-6, and (4) a Construction and Reclamation Plan on Form WW-9, all for proposed well work on my surface land as described therein.

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

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

NAME: _____
 By _____
 Its _____ Date _____

X Edith Griffin
 (Signature) Date 9-26-85
 X Edith Griffin
 (Signature) 05/03/2024
 Date 9-26-85

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



State of West Virginia
Department of Mines
Oil and Gas Division

Date November 25, 1985
Operator's
Well No. JK-1240
Farm Hess
API No. 47 - 095 - 1115

**WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE**

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1100 Watershed Big Run
District: Centerville County Tyler Quadrangle Pennsboro 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 Garnet I. Hess, et al
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS General Delivery Middlebourne, WV 26149
PERMIT ISSUED 9/30/85
DRILLING COMMENCED 10/18/85
DRILLING COMPLETED 10/24/85
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	0	0 sks.
9 5/8			
8 5/8	1268	1268	270 sks.
7			
5 1/2			
4 1/2	5940.70	5940.70	285 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Rhine Street Depth _____ feet
Depth of completed well 5978 feet Rotary / Cable Tools _____
Water strata depth: Fresh 740,1615 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 5876-84 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Combined Final open flow 696 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1325 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Alexander, Benson Pay zone depth 5264-77 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 1115

4973-76
5264-77
05/03/2024

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

Devonian Shale: Perforations: 5876-84 (16 holes)
 Fracturing: 300 sks. 20/40 sand: 408 Bbls. fluid.
 Alexander: Perforations: 5264-66 (8 holes) 5275-77 (8 holes)
 Fracturing: 450 sks. 20/40 sand:500 gal. acid: 518 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe^{XGLS}

$$t=60 + (5940.7 \times 0.0075) + 459.7 = 564.25 \quad X=53.34T = \frac{1}{53.34(564.25)} = \frac{1}{30,097} = 0.000033$$

$$Pf=(1325)(2.72)(0.000033)(0.661)(5428.5)(0.9) \quad Pf=(1325)(2.72)(0.1066) = (1325)(1.11)$$

Pf=1470 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
Top soil & shale			0	15	
Sand & sandy shale			15	170	Damp @ 290'
Sandy shale, red rock & sand			170	365	
Sand, shale & red rock			365	745	½" stream @ 740'
Sandy shale & sand			745	1520	
Sand & sandy shale			1520	1670	½" stream @ 1615'
Sandy shale			1670	1920	
Little Lime			1920	1940	Gas ck @ 2475 No show
Big Lime			1940	2005	
Sand & sandy shale			2005	2420	Gas ck @ 3467 No show
Sandy shale & sand			2420	2880	
Sandy shale & sand			2880	3455	Gas ck @ 4739 No show
Sandy shale & sand			3455	4560	
Brown sand			4560	4720	Gas ck @ 4987 No. show
Sandy shale & sand			4720	5264	
Alexander			5264	5277	Gas ck @ 5295 No show
Sandy shale & sand			5277	5876	
Devonian Shale			5876	5884	
Sandy shale			5884	5978	
				T.D.	

(Attach separate sheets as necessary)

J & J Enterprises, Inc.

Well Operator

By: Daniel F. Stark 05/03/2024 Daniel F. Stark-

Date: _____ 11/25 /85 Asst. 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 coal, encountered in the drilling of a well."

WW-9

RECEIVED
SEP 30 1985



Field
Review

#2512

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of ENERGY
Oil and Gas Division

DATE September 24, 1985
WELL NO. JK-1240
API NO. 47 - 095 - 1115

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 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 T. Smith (SCD Agent)

ACCESS ROAD

LOCATION

Structure <u>Drainage Ditch</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>along inside rd. cuts</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-12</u>	Page Ref. Manual <u>2-12</u>
Structure _____ (B)	Structure <u>Sediment Barrier</u> (2)
Spacing _____	Material <u>Logs &/or Brush</u>
Page Ref. Manual _____	Page Ref. Manual <u>2-16</u>
Structure <u>Road Culverts</u> (C)	Structure _____ (3)
Spacing <u>One 16" as shown</u>	Material _____
Page Ref. Manual <u>2-7</u>	Page Ref. Manual _____

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

REVEGETATION

Treatment Area I

Treatment Area II

Lime 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

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.

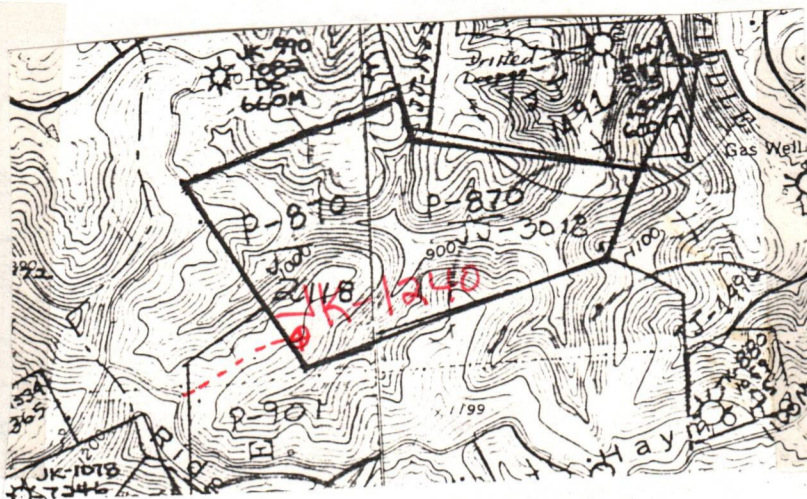
PLAN PREPARED BY Smith Land Surveying Co. 05/03/2024
ADDRESS 111 South Street
Glennville, WV 263351
PHONE NO. 304-462-5634

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

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

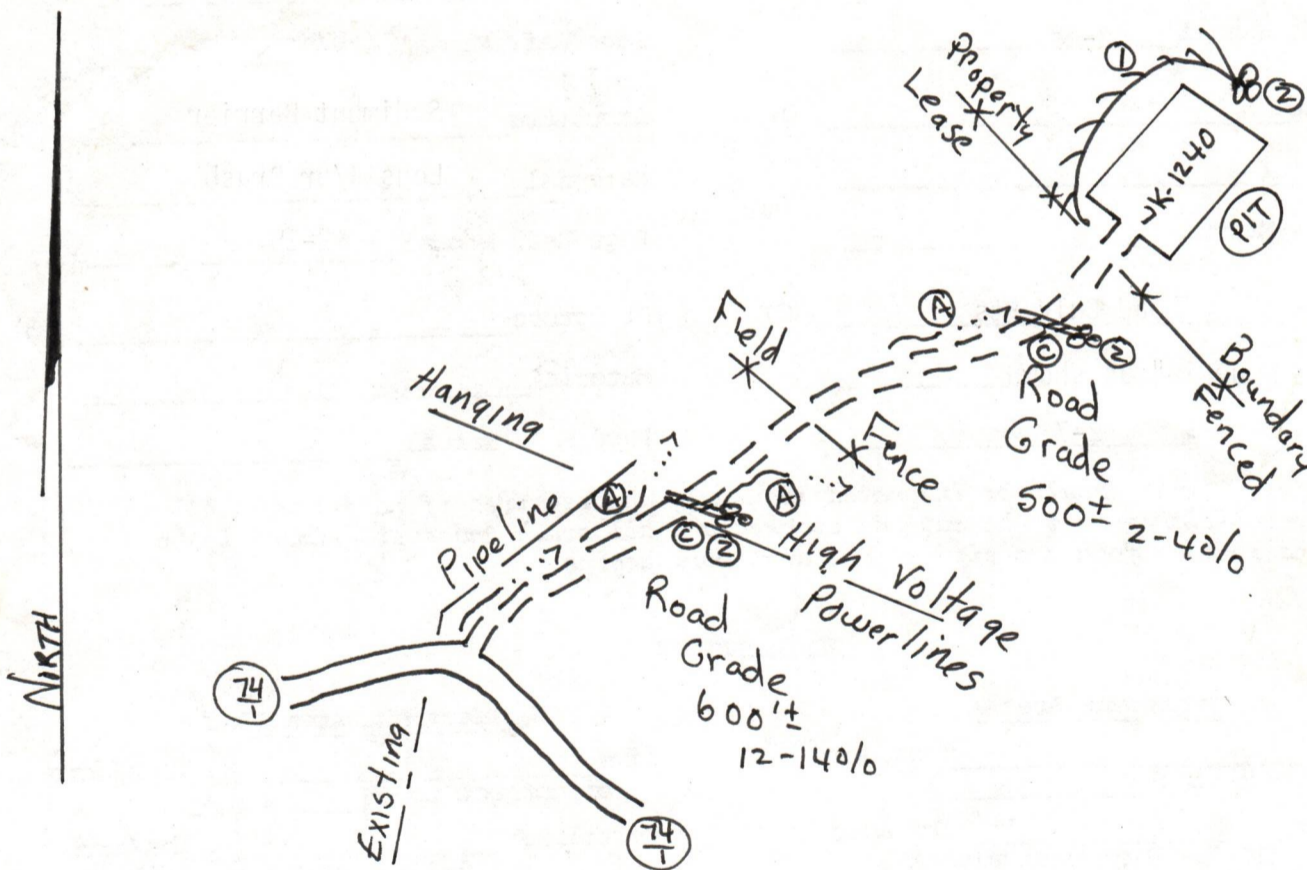
LEGEND

WELL SITE  ACCESS ROAD




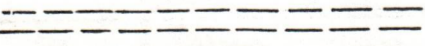
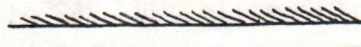



WELL SITE PLAN


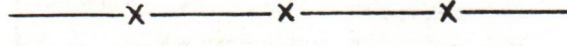
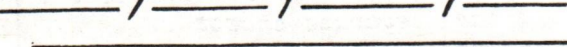



Sketch to include well location, existing access road, roads to be constructed, well-site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



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 
EXISTING FENCE 
PLANNED FENCE 
BUILDING 
WET SPOT 
SPRING 

05/03/2024

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