



1) Date: August 23, 1983
 2) Operator's Well No. J-313
 3) API Well No. 47 - 095 - 1036
 State County Permit

DRILLING CONTRACTOR:

S.W. Jack Drilling Company
 P.O. Box 48
 Buckhannon, WV 26201

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 763 Watershed: Middle Island Creek
 District: Centerville County: Tyler Quadrangle: West Union 7.5
- 6) WELL OPERATOR J&J Enterprises, Inc. 11) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER A.E. Pratt estate 12) COAL OPERATOR None
 Address Box 132 Washington, Pa.
- 8) SURFACE OWNER Edwin D. Mulvay, et ux 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Star Rt. West Union, WV 26456
 Name Edwin D. Mulvay, Et ux
 Address Star Rt. West Union, WV 26456
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address Unknown
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
 Name Robert A. Lowther Plug off old formation / Perforate new formation
 Address Gen. Delivery Middlebourne, WV 26149
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Alexander
 17) Estimated depth of completed well, 4975 feet
 18) Approximate water strata depths: Fresh, 73 feet; salt, 0 feet.
 19) Approximate coal seam depths: None Is coal being mined in the area? Yes / No

RECEIVED
 AUG 24 1983

OIL & GAS DIVISION
 DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Top	Bottom
Conductor	11 3/4	H-40	42	x		30	0	0 sks.	Kinds	
Fresh water	8 5/8	ERW	23	x		1100	1100	300 sks.	Sizes	
Coal	8 5/8	ERW	23	x		1100	1100	300 sks.	Depths set	
Intermediate										
Production Tubing	4 1/2	J-55	10.5	x		4925	4925	400 sks.	Perforations:	
Liners										

21) EXTRACTION RIGHTS

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

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

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

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

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

Signed: Richard M. Reddecliff
 Its: Designated Agent

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-095-1036 Date September 13, 1983
 Date 12/22/2023

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

Permit expires September 13, 1985 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: B.B.	Agent: [Signature]	Plat: T.S. TS	Casing: TS	Fee: 1796
------------	--------------------	---------------	------------	-----------

Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well **12/22/2023** examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____
Its _____

1) Date: August 23, 1983
2) Operator's Well No. J-313
3) API Well No. 47 095
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

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

(i) Name Edwin D. Mulvay
Address Star Route
West Union, WV 26456

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR None
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Edwin D. Mulvay
Address Star Route
West Union, WV 26456

Name _____
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name None
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 IV-2(B) (or Form IV-4 if the well is to be plugged, 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 IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-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 (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 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 Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-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 Administrator.

REGISTERED
AUG 24 1983

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 22-4-1-(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 IV-60.

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

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

Richard M. Reddecliff
this 23rd day of August, 19 83.
My commission expires 10/16, 19 89.

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

Linda S. Carfield
Notary Public, Waynes County,
State of West Virginia

12/22/2023

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 Office 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 § 22-4-1b(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 § 22-4-20.
- 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 § 22-4-1k 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a 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 § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(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

1) Date: August 23 1983

2) Operator's
Well No. J-313

3) API Well No. 47 095
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

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: 763 Watershed Middle Island Creek
District: Centerville County: Tyler Quadrangle: West Union 7.
- 6) WELL OPERATOR J&J Enterprises, Inc. 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 A. Lowther Name S.W. Jack Drilling Company
Address Gen. 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, Alexander
- 12) Estimated depth of completed well (or actual depth of existing well), 4975 feet
- 13) Approximate water strata depths: Fresh, 73 feet; salt, 0 feet.
- 14) Approximate coal seam depths: None 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 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1100	1100	300 sks.	
Coal	8 5/8	ERW	23	x		1100	1100	300 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		4925	4925	400 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application (or less than 5 days if the Application is to plug a well), 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 for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-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: _____

Edwin A. Mulroy Date: 8-25-83
(Signature)

By _____

Patricia B. Mulroy Date: 8/25/83
(Signature)

Its _____ Date: _____

RECEIVED
AUG 29 1983

12/22/2023

OIL & GAS DIVISION
DEPT. OF MINES

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.) Permit will be good for 24 months. See Chapter 22, Article 4 of the W. Va. Code.

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 Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, WV 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an 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 under 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 personally served or mailed to you 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. (This time is changed to FIVE (5) DAYS from the filing date if the permit is only to plug a well.) You may call the Administrator'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 should 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 Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator 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 Administrator.

List of Water Testing Laboratories. The Administrator 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 Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

12/22/2023

RECEIVED

APR 11 1984

IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date April 9, 1984
Operator's Well No. J-313
Farm Mulvay
API No. 47 - 095 - 1036

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: 763 Watershed Middle Island Creek
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 Edwin D. Mulvay, Et ux
ADDRESS Star Route, West Union, WV 26456
MINERAL RIGHTS OWNER A.E. Pratte estate
ADDRESS Box 132, Washington, Pa.
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther Middlebourne, WV 26149
ADDRESS Geb, Delivery

PERMIT ISSUED 8/1/83
DRILLING COMMENCED 3/6/84
DRILLING COMPLETED 3/13/84
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	1301.35	1301.35	310 sks.
7			
5 1/2			
4 1/2	4768.75	4768.75	190 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth feet
Depth of completed well 5177 feet Rotary x / Cable Tools
Water strata depth: Fresh 45,70 feet; Salt 0 feet
Coal seam depths: 375-80, 1120-25 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4653-57 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 762 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1475 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4217-63 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)

17000
1000

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

Benson: Perforations: 4653-57 (16 holes)
Fracturing: 100 sks. 80/100 sand: 450 sks. 20/40 sand: 500 gal. Acid; 500 Bbls. fluid.

Riley: Perforations: 4217-63 (15 holes)
Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 500 gal. Acid: 540 Bbls. fluid.

BOTTOM HOLE PRESSURE $P_f = P_{we}^{XGLS}$

$$t = 60 + (0.0075 \times 4769) + 459.7 = 555 \quad X = \frac{1}{53.35} \times 555 \quad \frac{1}{29609} = 0.000034 \quad P_f = 1475 \times 2.72^{(0.000034)}$$

$$(0.670)(4437)(0.9) = 1475 \times 2.72^{0.09} = 1475 \times 1.09$$

$P_f = 1608$ 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
Clay			0	12	
Shale & sand			12	115	½" stream @ 45'
Sand, shale & red rock			115	320	
Red rock & sand			320	375	2½" stream @ 70'
Coal			375	380	
Shale & red rock			380	565	Gas ck @ 1829 66/10-1" w/water
Sand & shale			565	935	61,199 Cu.ft.
Shale & sand			935	1120	
Coal			1120	1125	Gas ck @ 3131 48/10-1" w/water
Sand, shale & red rock			1125	1575	52,715 cu.ft.
Sand			1575	1618	
Big Lime			1618	1680	Gas ck @ 4312 40/10-1" w/water
Injun			1680	1807	47,629 cu.ft.
Sand & shale			1807	2700	
Sand & shale			2700	3080	Gas ck @ 4900 90/10-1" w/water
Sand & shale			3080	4217	71,464 cu.ft.
Riley			4217	4263	
Sand & shale			4263	4653	
Benson			4653	4657	
Sand & shale			4657	5177	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, INC.

Well Operator

By: *Bob J. Miller*

12/22/2023

Date: 4/9/84

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."

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

RECEIVED
MAR 13 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 095-1036

Oil or Gas Well _____
(KIND)

Company J & J Enterprises
Address Buckhannon W. Va
Farm Edwin Mulway
Well No. J-313
District Centerville County Tyler
Drilling commenced _____
Drilling completed _____ Total depth 2479
Date shot _____ Depth of shot _____
Initial open flow _____ /10ths Water in _____ Inch
Open flow after tubing _____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4	1301	1301	
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 5/8 SIZE 1301 No. FT. 3-8-84 Date
NAME OF SERVICE COMPANY Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

mar 9 84
DATE

R.A. Louther
DISTRICT WELL INSPECTOR

12/22/2023

Form 26
2/16/82

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

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

DATE I hereby certify I visited the above well on this date.

12/22/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 19 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 095-1036

Oil or Gas Well _____
(KIND)

Company J & J Enterprises

Address _____

Farm _____

Well No. J-313

District _____ County Tyler

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer
16			
13			Size of
10			
8 1/4			Depth set
6 5/8			
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Status Report

Remarks: Visit site on request of contractor to look at reclamation and seeding (O.K.) Road's BAD.

6-13-84
DATE

Mike Underwood
12/22/2023
DISTRICT MINE INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location			Amount			Packer			Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING								
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST						

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE



RECEIVED

JUN 5 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
April 17, 1984

COMPANY J & J Enterprises, Inc.
P. O. Box 48
Buckhannon, West Virginia 26201

PERMIT NO 095-1036
FARM & WELL NO Edwin Mulvay #J-313
DIST. & COUNTY Centerville/Tyler

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strength	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.A. Lowther

DATE May 30, 1985

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. v. B.B.
Administrator-Oil & Gas Division

June 10, 1985
DATE

FERC-121

1.0 API well number: (If not available, leave blank. 11 digits.)	47-095-1036			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	108 <small>Section of NGPA</small>	N/A <small>Category Code</small>		
3.0 Depth of the deepest completion location (Only enter field sections 103 or 107 in 2.0 above.)	4657 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 <small>Street</small>		Pa	15701 <small>Zip Code</small>
	Indiana	<small>State</small>		
5.0 Location of this well (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Centerville <small>Field Name</small>		WVA <small>State</small>	
	Tyler <small>County</small>			
(b) For OCS wells:	N/A <small>Area Name</small>		Block Number	
	Date of Lease:			
	_ _ _ _	_ _ _ _		_ _ _ _
	<small>Mo. Day Yr.</small>	<small>OCS Lease Number</small>		
(c) Name and identification number of this well (35 letters and digits maximum.)	J-313			
(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.)	Carnegie Natural Gas Co. <small>Name</small>		003042 <small>Section Code</small>	
(b) Date of the contract.	_ _ _ _ <small>Mo. Day Yr.</small>			
(c) Estimated annual production:	MMcf			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate +/-)	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	4.274	.278	---	4.552
8.0 Maximum royalty rate (As of filing date. Complete to 3 decimal places.)	4.274	.278	---	4.552
9.0 Person responsible for this application	Richard J. Kline Secretary <small>Name Title</small>			
Agency Use Only Date received by State Agency JUL - 3 1985 Date received by FERC	Richard J. Kline <small>Signature</small>		6-24-85 <small>Date Application is Completed</small>	
	(412) 349-6800 <small>File Number</small>		12/22/2023	

JUL 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: June 24, 1985

24150

Applicant's Name: J & J Enterprises, Inc.

Address: P.O. Box 697

Indiana, PA 15701

Gas Purchaser Contract No. 1654

Date of Contract 19984A
(Month, day and year)

First Purchaser: P632
Carnegie Natural Gas Company

Address: 800 Regis Avenue

(Street or P.O. Box)

Pittsburgh, PA 15236

(City)

(State)

(Zip Code)

FERC Seller Code 0009480

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

8.50703 -1080-095-1036

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Richard Reddecliff

Address: P.O. Box 48

Buckhannon, WVA 26201

FERC Buyer Code 004228

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

Name: Vicki Vanderberg

Signature: (Print) Vicki Vanderberg

(Title)

Address: P.O. Box 697

(Street or P.O. Box)

Indiana, PA 15701

(City)

(State)

(Zip Code)

Telephone: (412) 349-6800

(Area Code)

(Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas

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

108 Stripper Well Natural Gas

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

103 New Onshore Production Well

- 103 New Onshore Production Well

107 High Cost Natural Gas

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

AGENCY USE ONLY

QUALIFIED

12/22/2023

RECEIVED

JUL 3 1985

OIL & GAS DIV.
DEPT. OF MINES

Date Received

Determination Date

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
WELL CLASSIFICATION FORM

STRIPPER GAS WELL

NGPA Section 108

Date: June 24, 1985

Operator's
Well No. J-313

API Well
No. 47 - 095 - 1036
State County Permit

Well Operator: J & J Enterprises, Inc.

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

Gas Purchaser: Carnegie Natural Gas Company

Address: 800 Regis Avenue
Pittsburgh, PA 15236

Designated Agent: Richard Reddecliff

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

Location: Elevation 263

Watershed Middle Island Creek
Centerville
Dist. County Tyler w. Union Quad 2.5

Gas Purchase Contract No. 1654

Meter Chart Code 19984A

Date of Contract _____

All applicants must complete FERC Form 121, including question No. 2.0 which should state Section 108 of NGPA.

QUALIFICATIONS

1. Rate of Production

a.) What date did the well have first production? Apr 18, 1984

b.) What are the beginning and ending dates of the 90-day production period?

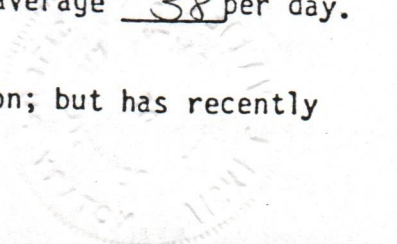
From Jan 23 (1-1), 1985 to Apr 23 (2-1), 1985. During this 90-day production period, what was the total and average per-day production? The well produced a total of 4482 MCF or average 50 MCF per day.

2. Maxium Efficient Rate of Flow

The operator must establish that the well produced at its maxium efficient rate of flow by use of one of the following procedures (Check one):

[] a.) If the filing date is more than one year from the date of first production, provide production on IV-39 for twelve months prior to the last day of the 90-day production period (2-1 in item 1). This twelve month period is 04 18 84 through 04 23 85 and produced a total of 11926 MCF or average 38 per day. (month-day-year) (month-day-year) 12/22/2023

[] b.) If the well does not have a 12-month history of production; but has recently



produced an average of 60 Mcf or less per production day for the 90-day period (item 1). All available months of production preceding the filing date are shown on Form IV-39.

c.) Will the maximum efficient rate of flow be established by other evidence? NO

3. Dates

a.) List the dates during the production period (including the 90-day production period) which gas was not produced. July & Aug 1984

b.) Why was no gas produced on these dates? Purchase Curtailment

4. Crude Oil

How much oil did the well produce during the 90-day production period? N/A
(total bls)

How much oil per day? N/A.

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax records and royalty payment records) and indicate the location of such records.

Describe the search made of any records listed above:

AFFIDAVIT

I, James H. McElwain, having been first sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate and that on the basis of the records and examinations hereinbefore described, and to the best of my information, knowledge and belief, the well for which this certification is sought qualifies as a stripper well.

James H. McElwain
Executive Vice President

STATE OF Pennsylvania

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 24 day of June, 19 85, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 24 day of June, 19 85

My term of office expires on the 23 day of Jan., 19 88.

Vicki L. Vanderberg
Notary Public

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

[NOTARIAL SEAL]

Meter # 219023

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

REPORT DATE

6/24/85

REPORT OF MONTHLY PRODUCTION
GAS VOLUMES IN MCF @ 14.73
OIL IN BARRELS @ 60 DEGREES

J. & J. ENTERPRISES, INC.
P.O. BOX 697
INDIANA, PA 15701

12/22/2023

YEAR 19 85

API	FARM	COUNTY	AVG. FLOW PRESSURE	SHUT-IN PRESSURE	TOTALS
095-1036	Yndurany	Fyer			5788
GAS MCF	4306	1135	2528	1819	0
OIL BBL	J-	F-	M-	A-	J-
DAYS ON LINE	35	27	28	35	125

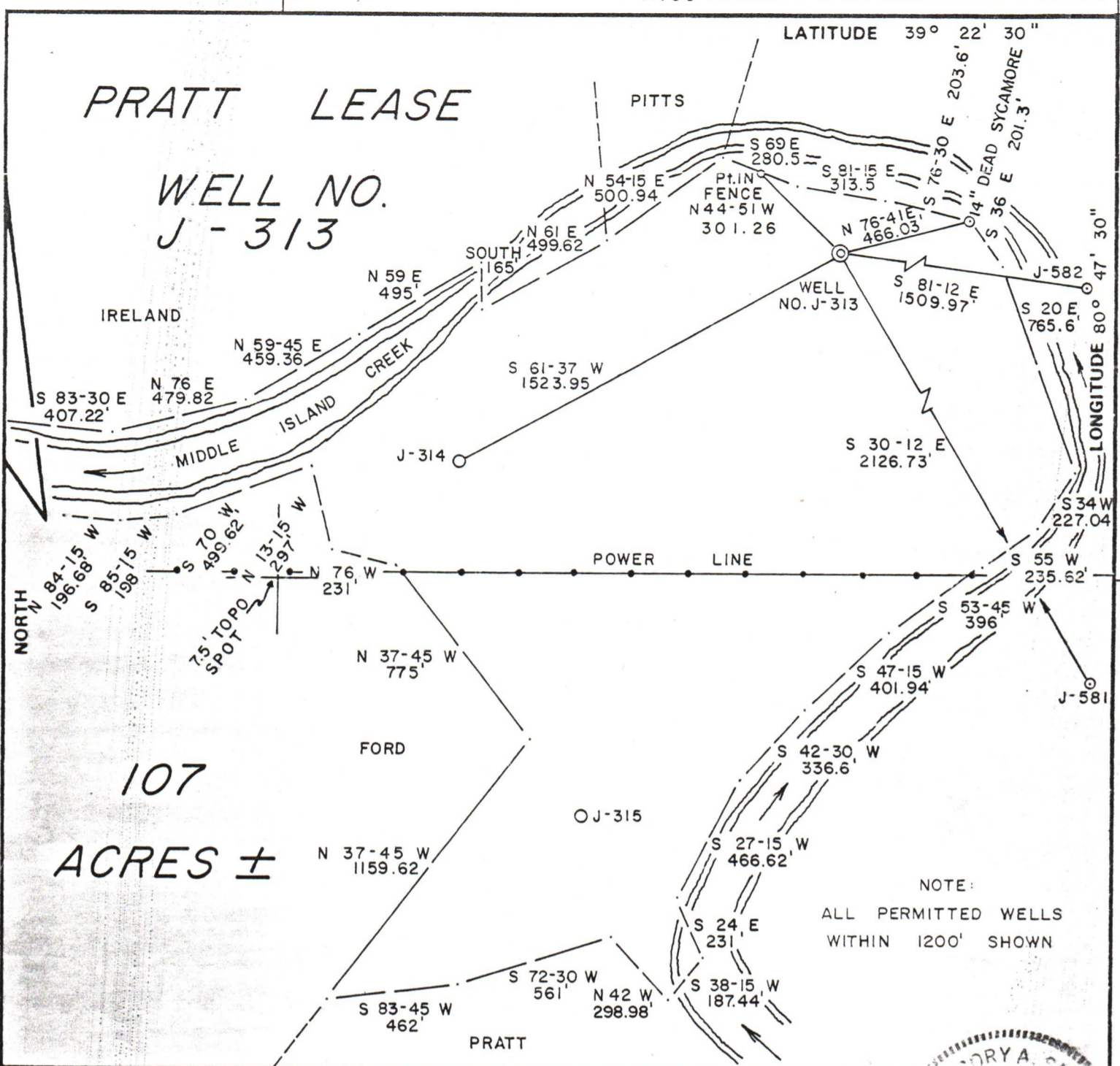
API	FARM	COUNTY	AVG. FLOW PRESSURE	SHUT-IN PRESSURE	TOTALS
					6138
GAS MCF			1887	664	0
OIL BBL	J-	F-	M-	A-	J-
DAYS ON LINE			27	30	0
			0	0	35
					30
					35
					29
					186

API	FARM	COUNTY	AVG. FLOW PRESSURE	SHUT-IN PRESSURE	TOTALS
GAS MCF					
OIL BBL	J-	F-	M-	A-	J-
DAYS ON LINE					

SUMMARIZATION SCHEDULE
Section 271.804 (b)

N/A

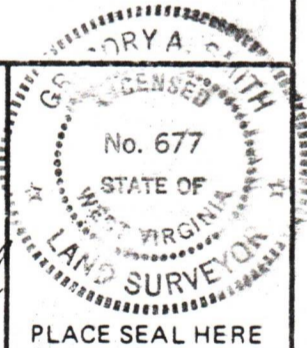
In accordance with Section 271.804 (b) please list all other wells which are to be used in determining this well classification under Part 271 Subpart H.



FILE NO. 11-35
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. 915'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Gregory A. Smith
 R.P.E. _____ L.L.S. 677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE AUG. 4, 1983
 OPERATOR'S WELL NO. J-313
 API WELL NO. 47-095-1036
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

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

LOCATION: ELEVATION 763' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE WEST UNION 7.5'

SURFACE OWNER EDWIN D. MULVAY et. ux. ACREAGE 107
 OIL & GAS ROYALTY OWNER A.E. PRATT ESTATE LEASE ACREAGE 107/22/2023
 LEASE NO. P.S. 28

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 4975'
 WELL OPERATOR J & J ENTERPRISES DESIGNATED AGENT RICHARD REDDACLIFF
 ADDRESS P. O. BOX 48 ADDRESS P. O. BOX 48
BUCKHANNON WV 26201 BUCKHANNON WV 26201

ITEM # 21 - EXTRACTION RIGHTS

CODE 22-4-11 (C)

107 ACRES	Centerville	DISTRICT	Tyler	COUNTY, WV
LESSORS & ADDRESS	PERCENT OGM ROYALTY INTEREST (of 1/8ths)			RECORDING
	BK	PG		
Mary Jane Borer 710 Kimball St., Escondido, CA 92025	10% Oil 7.5% Gas	224	472	
Margaret Ross Mead 243 Tumstone Court Foster City, CA 94404	10% Oil 7.5% Gas	"	"	
Robert F. Pratt 653 Elmhurst Dr. Washington, PA 15301	20% Oil 15% Gas			
Janet Tinkham 6370 Buckletown, Alta Loma, CA 91701	20% Oil 15% Gas			
Kenneth E. Pratt 1261 Rosewood Place, Hemet, CA 92343	20% Oil 15% Gas			
Edwin D. Patricia L. Mulvay Star Route West Union, WV 25456	25% Gas	"	"	
Mrs. Lawrence A. Pratt P.O. Box 689 Redlands, CA 92372	16.6% oil 15% Gas	"	"	
Dorothy Ann Greenwood 3104 Arnold Balersfield, CA 93305	.85% Oil .6375% Gas	"	"	
Jena Cole 5641 Dean Way Riverside, Ca. 92504	.85% oil .6375% gas	"	"	
Allen Pratt 705 E. Foothill Glendora, Ca. 91740	.85% oil .6375% gas	"	"	
Darryl Pratt C/O Allen Pratt 705 E. Foothill Glendora, CA 91740	.85% oil .6375% Gas	"	"	

RECEIVED

AUG 24 1983

OIL & GAS DIVISION
 DEPT. OF MINES

12/22/2023

#2088



IV-9
(Rev 8-81)

DATE 8/10/83

WELL NO. J-313

State of West Virginia

API NO. 47 - 095 - 1036

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

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

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

LANDOWNER Edwin D. Mulvay, et ux Star Route West Union, WV 26456

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: 8/19/83 (Date)
Kenneth R. Mason (SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)
Spacing To be constructed along road
Page Ref. Manual 2-10

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

Structure Road Culvert (B)
Spacing Min Size 12"
Page Ref. Manual 2:8

Structure Rip-Rap (2)
Material Logs
Page Ref. Manual N/A

Structure Rip-Rap (C)
Spacing Logs
Page Ref. Manual N/A

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.

Note: Drainage to be maintained after completion of well and seeding to commence within 3 months after completion of well.

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 Tall Fescue 30 lbs/acre
Annual Rye 10 lbs/acre
Red Clover 5 lbs/acre

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

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

PLAN PREPARED BY Ed Summerfield


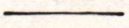
ADDRESS P.O. Box 48
Buckhannon, WV 26201

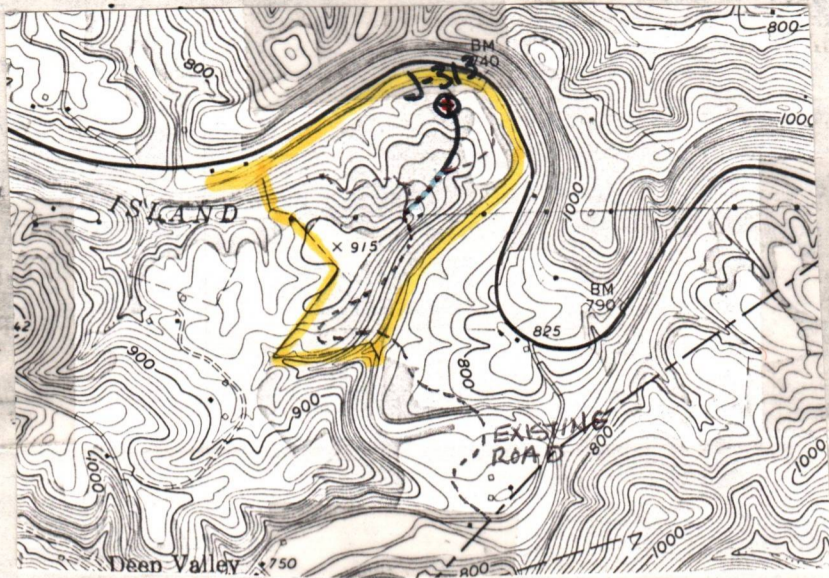
PHONE NO. 472-9403

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

RECEIVED
AUG 14 1983
OIL & GAS DIVISION
DEPT. OF MINES

12/22/2023


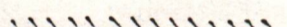







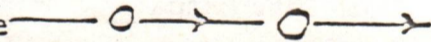
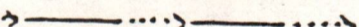
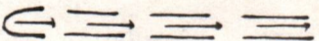
Well Size 
 Access Road 

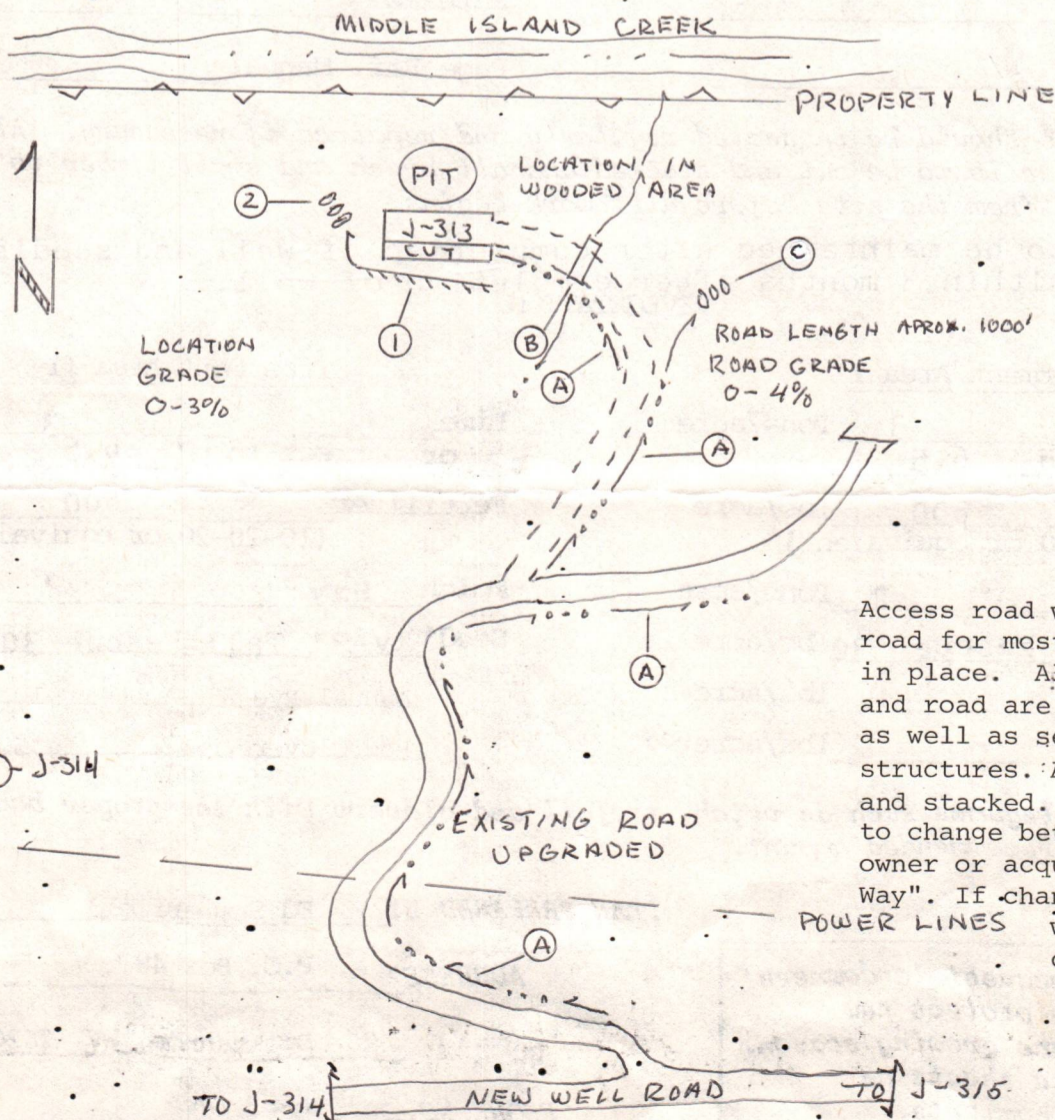


WELL SITE PLAN

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

LEGEND

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



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