



1) Date: 24 March, 19 84
 2) Operator's Well No. J-947
 3) API Well No. 47 - 001 - 2047
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 1768' Watershed: Sugar Creek
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR J&J Enterprises, Inc.
 Address PO Box 48
Buckhannon, WV 26201
- 7) DESIGNATED AGENT Richard Reddecliff
 Address PO Box 48
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Phillip Tracy
 Address General Delivery
Ellamore, WV 26267
- 9) DRILLING CONTRACTOR:
 Name S. W. Jack Drilling, Co.
 Address PO Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Haverty
 12) Estimated depth of completed well, 5500' feet
 13) Approximate strata depths: Fresh, 150' feet; salt, 1100' feet.
 14) Approximate coal seam depths: 125' & 175' Is coal being mined in the area? Yes

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15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS						FOOTAGE INTERVALS		CEMENT FILL OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor	1 3/4	H-40	42	X		30	0	0 sks.	Kinds	
Fresh water	8 5/8	ERW	23	X		1400	1400 900	To surface		
Coal	8 5/8	ERW	23	X		1400	1400 900	To surface	Sizes	
Intermediate										
Production Tubing	4 1/2	J-55	11.5	X		5500'	5500'	350 sacks	Depths set as req. by rule 15.01	
Liners									Perforations: Top Bottom	

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2047 Date May 4, 19 84

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 May 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond BLANKET	Agent: <u>LP</u>	Plat: <u>T 3</u>	Casing: <u>T 3</u>	Fee: <u>1509</u>
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T. H. H. H.
 Administrator, Office of Oil and Gas



OFFICE USE ONLY

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

1) WELL OPERATOR: General Delivery
 2) LOCATION: Barboursville
 3) DESIGNATED AGENT: Barboursville
 4) DRILLING CONTRACTOR: General Delivery

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OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	Weight per ft.	Approximate Date Depth		Approximate Date of Completion
				Feet	Feet	
Concrete	12 3/4" ID	12	12	150'	150'	150'
Cast Iron	8 5/8" ID	12	12	150'	150'	150'
Cast Iron	8 5/8" ID	12	12	150'	150'	150'

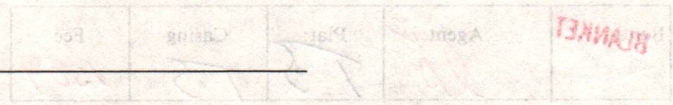
OFFICE USE ONLY

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

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

OTHER INSPECTIONS

Reason: _____
 Reason: _____



1) Date: April 9, 1984
2) Operator's Well No. J-947
3) API Well No. 47 - 001-2047
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 Lisa Renee Annon
Address C/O Albert Annon
Rt. # 2, Philippi, WV 26416
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Hillman Coal & Coke Co.
Address 170 Thompson Dr.
Bridgeport, WV 26330
Name _____
Address _____
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name Grafton Coal Co.
Address Hill's Plaza
Bridgeport, WV 26330

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.

RECEIVED
APR 16 1984

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.

OIL & GAS DIVISION
DEPT. OF MINES

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 X

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 Reddecliff

this 9 day of April, 1984.
My commission expires 10/16, 1989.

Lucretia S. Corfield
Notary Public, Upshur County,
State of West Virginia

WELL OPERATOR J&J Enterprises, Inc.

By Richard M. V. Reddecliff
Its Designated Agent
Address P.O. Box 48
Buckhannon, WV 26201
Telephone 472-9403

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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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
-----------------------	-----------------------	---------	-----------

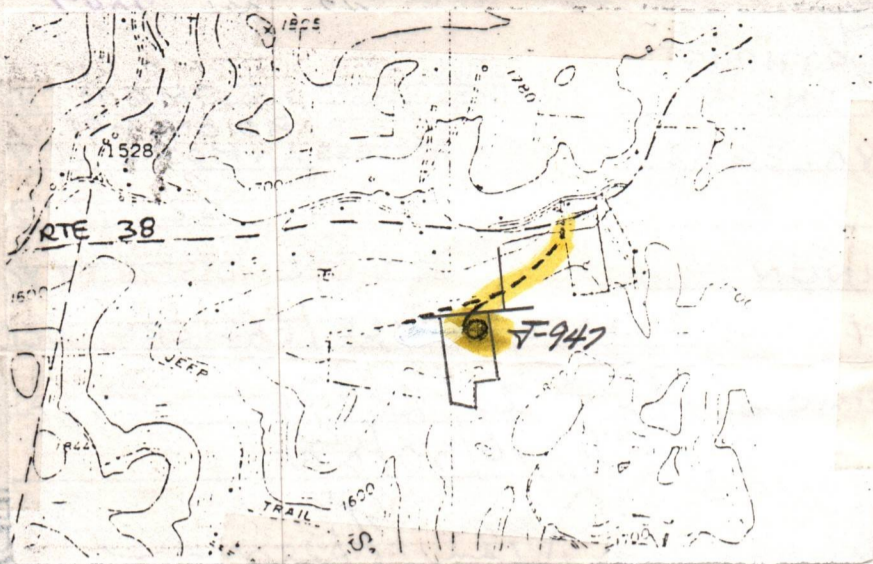
James F or Karen I. Beckett	J&J Enterprises, Inc. All of 1/8-100%
-----------------------------	---------------------------------------

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE NESTORVILLE

LEGEND

Well Site ⊕

Access Road ———



WELL SITE PLAN

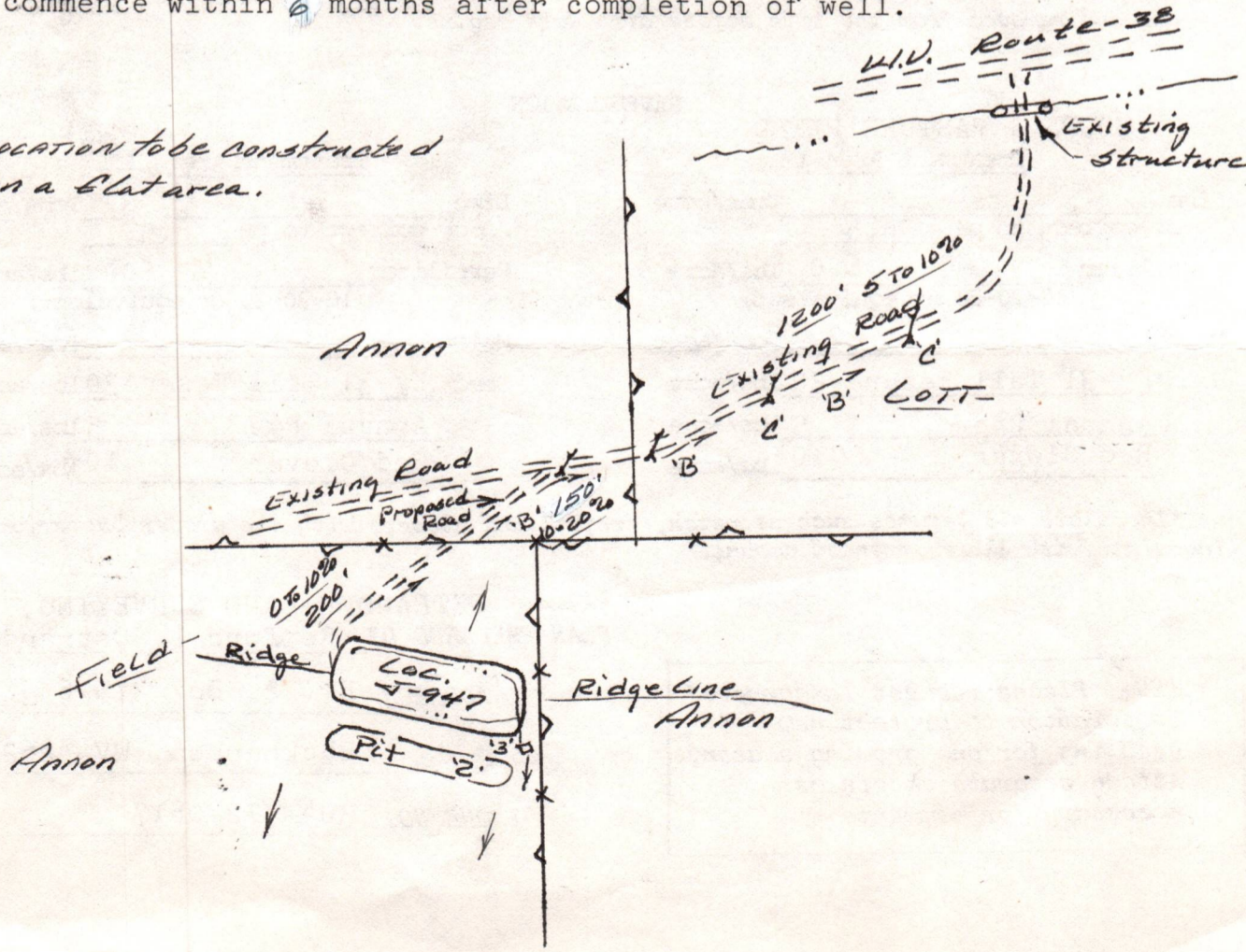
Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ———▲———▲———▲———▲———▲———	Diversion ———/———/———/———/———/———/———/———/———/———
Road = = = = =	Spring ○ →
Existing fence ———X———X———	Wet spot ☹
Planned fence ———/———/———/———	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe ———○———○———○———○———○———
Open ditch ———>———>———>———>———>———>———>———>———	Waterway <———≡———≡———≡———≡———

- All cuts to be on a 2:1 slope unless in rock.
- Drainage to be maintained after completion of well and seeding to commence within 6 months after completion of well.

Location to be constructed on a flat area.



IV-9
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

DATE 24 March '84
WELL NO. 5-947
API NO. 47-001-2047

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J&J Enterprises, Inc.
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

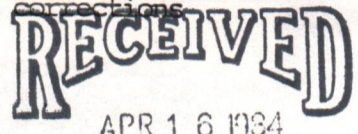
DESIGNATED AGENT Richard Reddicliff
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

LANDOWNER Lisa Renee Annon
Revegetation to be carried out by J&J Enterprises, Inc. (Agent)

SOIL CONS. DISTRICT Tygart Valley

This plan has been reviewed by Tygart Valley SCD. All corrections
and additions become a part of this plan: 11-6-84
(Date)

Junior Hedrick
(SCD Agent)



OIL & GAS DIVISION
DEPT. OF MINES

ACCESS ROAD

LOCATION

Structure Culverts (A)
Spacing AS Shown and As Needed
(15" min. when leaving a state road.)
Page Ref. Manual 2-7

Structure Diversion Ditch (1)
Material Soil (2% max. slope)
Page Ref. Manual 2-12

Structure Drainage Ditch (B)
Spacing To be constructed along
the access road.
Page Ref. Manual 2-12

Structure Drilling Pit (2)
Material Soil
Page Ref. Manual -----

Structure Cross Drains (C)
5%-135' 15%-60'
Spacing 10%- 80' 20%-45'
Page Ref. Manual 2-4

Structure Sediment Trap (3)
Material Soil
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

WOODS & PASTURE FIELD
Treatment Area I

Treatment Area II

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

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

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

OSTRANDER LAND SURVEYING, INC.
PLAN PREPARED BY Rexford L. Ostrander

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

PHONE NO. 304-472-0817

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

P 471 414 382

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse) 9-947

Sent to	Hillman Solt & Co.
Street and No.	120 Thompson Dr.
P.O., State and Zip Code	Bridgport, WV 26330
Postage	\$ 37
Certified Fee	.75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom and Date Delivered	.60
Return Receipt Showing to Whom, Date, and Address	
TOTAL	1.72
Postage and Fee	
Postmark or Date	APR 12 W.V.

BUCKHANNON
 APR 12 W.V.
 J & J ENTERPRISES, INC.
 P. O. BOX 48
 BUCKHANNON, WV 26201

P 534 410 809

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

4-947

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

Sent to	Lisa Renee Annon	
Street and No.	Rt. 2	
P.O. State and ZIP Code	Phillippi, WV 26416	
Postage	\$	37
Certified Fee		71
Special Delivery Fee		
Restricted Delivery Fee		60
Return Receipt Showing to whom and Date Delivered		
Return receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees		\$172
Postmark or Date		984 WV

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 DEPT. OF MINES

DATE	DESCRIPTION	AMOUNT	CHECK NO.	REMARKS
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930

RECEIVED
 APR 10 1931
 OIL & GAS DIVISION
 DEPT. OF MINES

RECEIVED
 APR 10 1931
 OIL & GAS DIVISION
 DEPT. OF MINES

P 534 410 810

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

7-947

PS Form 3800, Feb. 1982

Sent to Grafton Coal Company	
Street and No Hill S Plaza	
P.O. State and ZIP Code Bridgeport, WV 26330	
Postage	\$ 20
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	60
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 155
Postmark or Date	WV

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

437 Haverty: Perforations: 5245-76 (16 holes) Fracturing: 105 sks. 80/100 sand: 350 sks. 20/40 sand: 500 gal. acid: 220 Bbls. fluid.
 436 { 3rd Elk: Perforations: 4894-97 (12 holes) Fracturing: 200 sks. 80/100 sand: 500 gal. acid: 220 Bbls. fluid.
 2nd Elk: Perforations: 4663-65 (8 holes) 4695-4700 (8 holes) Fracturing: 200 sks. 20/40 sand: 500 gal. acid: 220 Bbls. fluid.
 1st Elk: 4219-23 (10 holes) 4264-66 (4 holes) Fracturing: 200 sks. 20/40 sand : 500 gal. acid: 220 Bbls. fluid.

BOTTOM HOLE PRESSURE $P_f = P_{we} XGLS$
 $t=60 + (0.0075 \times 5435) + 459.7 = 560$ $X=53.35 \times 560 = 29901 = 0.000033$ $P_f=1625 \times 2.72^{(0.000033)}$
 $(0.650)(4748)(0.5) = 1625 \times 2.72^{0.092} = 1625 \times 1.1$

Pf=1788 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
Fill			0	5	
Sand & shale			5	270	Damp @ 135'
998 Coal			270	276	
Shale & sand			276	280	3/4" stream @ 261'
White sand			280	350	
Shale & white sand			350	543	Damp @ 1434
998 Coal			543	545	
Sand & shale			545	565	Gas Ck @ 1495 No show
998 Coal			565	575	
Sand, shale & red rock			575	895	Gas ck @ 2298 8/10-1/2" w/water
Sand, shale & red rock			895	1053	5,324 cu.ft.
Red rock & shale			1053	1145	
Shale, sand & red rock			1145	1194	Gas ck @ 2935 8/10-1/2" w/water
Sand & shale			1194	1220	5,324 cu.ft.
Shale & lime			1220	1250	
345 Big Lime & Injun			1250	1436	Gas ck @ 3831 10/10-1/2" w/water
Sand & shale			1436	1465	5,955 cu.ft.
Sand, shale & lime			1465	1622	
Sand, shale & red rock			1622	2298	Gas ck @ 4278 6/10-1/2" w/water
Sand & shale			2298	3978	4,611 cu.ft.
435 Benson			3978	3980	
Sand & shale			3980	4219	
436 1st Elk			4219	4266	Gas ck @ 5240 8/10-1/2" w/water
Sand & shale			4266	4663	5,324 cu.ft.
2nd Elk			4663	4700	
Sand & shale			4700	4894	Gas ck @ collars 8/10-1/2" w/water
3rd ELk			4894	4897	5,324 cu.ft.
Sand & shale			4897	5245	
437 Haverty			5245	5276	
Sand & shale			5275	5550	
					T.D.

(Attach separate sheets as necessary)

J&JEnterprises, Inc.

Well Operator

By: *[Signature]*

Date: 7/16/84

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."

RECEIVED



FERC-121

Form Approved
OMB No. 4910-0081

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:

JUL 20 1981

State Book # _____

(Continue on reverse side)

PARTICIPANTS:

DATE: AUG 16 1984

BUYER-SELLER C

OPERATOR:

J & J Enterprises, Inc.

FIRST PURCHASER:

Tennessee Gas Pipeline Co.

NUMBER:

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

840730-103-001 = 2047

QUALIFIED

Use Above File Number on all Communications
Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 _____ Items not completed - Line No. _____
- 2. IV-1 Agent _____
- 3. IV-2 Well Permit _____
- 4. IV-6 Well Plat _____
- 5. IV-35 Well Record _____ Drilling _____ Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete? _____
- 17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? _____ Affidavit Signed _____
- 26. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: _____ Date completed _____ Deepened _____
- (5) Production Depth: _____
- (5) Production Formation: _____
- (5) Final Open Flow: _____
- (5) After Frac. R. P. _____
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: _____
- (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
- (9) Line Pressure: _____
- (10) Production _____ From Completion _____
- (11) Does lease inventory indicate enhanced recovery being done _____
- (12) Is affidavit signed? _____ Notarized? _____
- (13) official well record with the Department confirm the submitted information. _____
- (14) Additional information _____ Does computer program confirm? _____
- (15) Interpretation Checked to _____ By Whom? _____

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

Date July 24, 1984
Operator's Well No. J-947
API Well No. 47 - 001 2047
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 1768
Watershed Sugar Creek
Dist. Glade County Barbour Quad Pestoville

GAS PURCHASER Tennessee Gas Pipeline Co.
ADDRESS P.O. Box 2511
Houston, Texas 77001

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

* * * * *

Date surface drilling was begun: May 21, 1984

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 $P_f = P_{we} \text{ XGLS}$
 $t=60 + (0.0075 \times 5435) + 459.7 = 560$ $X=53.35 \times \frac{1}{560} = \frac{1}{29901} = 0.000033$ $P_f=1625 \times 2.72 (0.00003)$
(0.650) (4748)

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 L. 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 24 day of July, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 24 day of July, 1984. My ~~XXXXXX~~ expires on the 23 day of January, 1988.
Commission

[NOTARIAL SEAL]



Vicki L. Vanderberg
Notary Public

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

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CHICAGO, ILL. 60637



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

Date July 24, 1984
Operator's Well No. J-947
API Well No. 47 - 001-2047
State _____ County _____
Previous File No. _____ (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

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

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

Gas Purchase Contract No. _____ and Date _____
(Month, Day and year)

Meter Chart Code _____

Name of First Purchaser Tennessee Gas Pipeline Company
P.O. Box 2511
(Street or P.O. Box)
Houston, Texas 77001
(City) (State) (Zip Code)

FERC Seller Code 009480 FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 103 Section of NGPA N/A Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Richard J. Kline Secretary
Name (Print) Title

Richard J. Kline
Signature

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

412 349-6800
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1975, (NGPA); for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is, is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

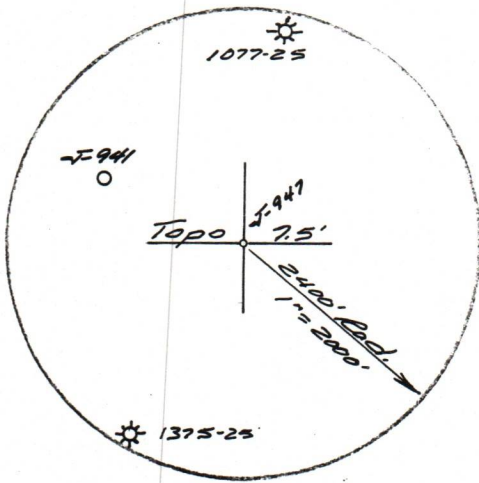
WEST VIRGINIA DEPARTMENT OF MINES

Director

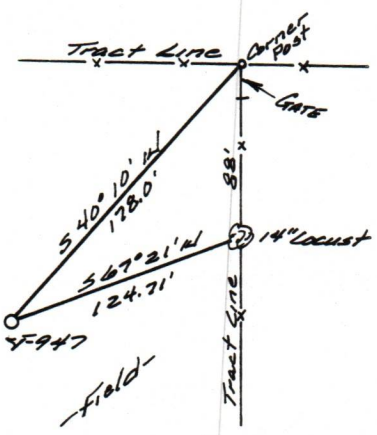
By _____
Title _____

JUL 30 1984

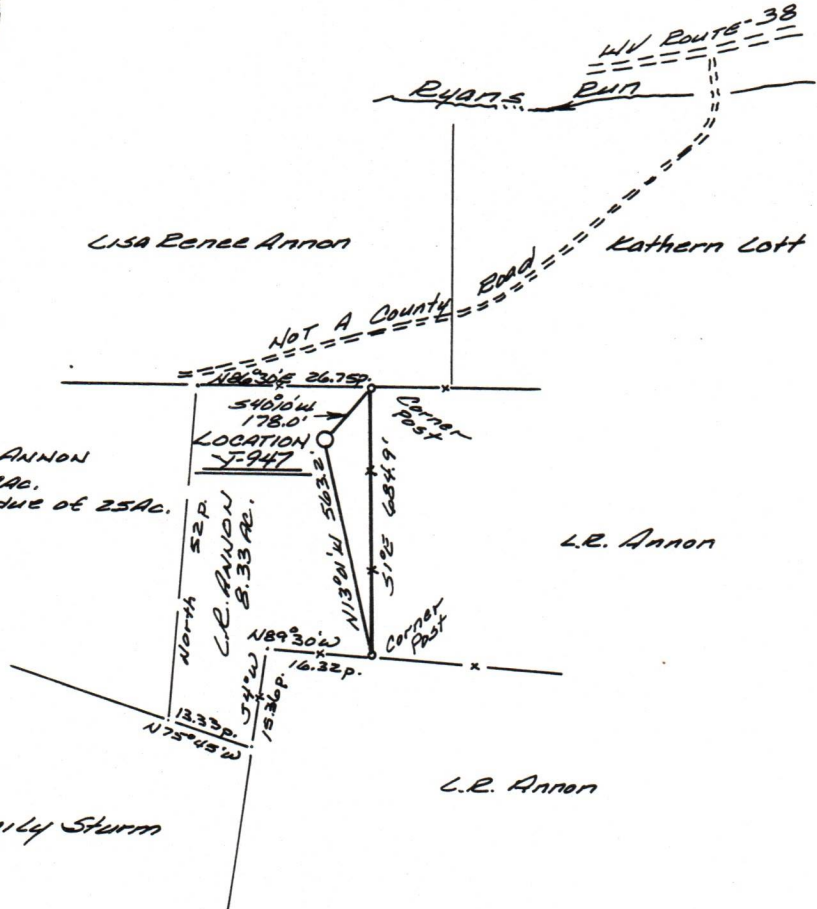
Date received by _____
Jurisdictional Agency



REFERENCE
1" = 100'



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



L.R. ANNON
16.67 AC.
Residue of 25 AC.

L.R. ANNON
North 52 P.
L.R. ANNON
8.33 AC.

Emily Sturm

L.R. Annon

L.R. Annon

FILE NO. 346.01
DRAWING NO. 84-32
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION Spot El. - 1804'
W. of Location at top of Knob.

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) Richard J. Ostrander
R.P.E. _____ L.L.S. 555
Buckhannon, WV 26201

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 23 March, 19 84
OPERATOR'S WELL NO. F-947
API WELL NO.

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1768' WATER SHED SUGAR CREEK
DISTRICT Glade COUNTY Barbour
QUADRANGLE Nestorville
SURFACE OWNER Lisa Renee Annon ACREAGE 8.33
OIL & GAS ROYALTY OWNER J.F. Beckett & R.D. Miller LEASE ACREAGE _____
LEASE NO. _____
PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Haverly ESTIMATED DEPTH 5500'
WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201