



1) Date: 15 May, 19 84
 2) Operator's Well No. J-1005
 3) API Well No. 47 - 001 - 2079
 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 /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1705' Watershed: Stoney Run (MT 23 B 1)
 District: Cove County: Barbour Quadrangle: Nestorville
- 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 Phillip Tracy Name S.W. Jack Drilling Co.
 Address General Delivery Address P.O. Box 48
Ellamore, WV 26267 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty
 12) Estimated depth of completed well, 5800' feet
 13) Approximate strata depths: Fresh, 65' feet; salt, 0' feet.
 14) Approximate coal seam depths: 125' to 420' Is coal being mined in the area? Yes / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13/4	H-40	42	X		30	0	0 sks	Kinds
Fresh water	85/8	ERW	23	X		1000	1000	To surface	By rule 15.05
Coal	85/8	ERW	23	X		1000	1000	To surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5750	5750	350 sks.	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-001-2079 Date June 12, 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 June 12, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>1564</u>
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[Signature]
Administrator, Office of Oil and Gas

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

File



OFFICE USE ONLY

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

1) WELL LOCATION: B (Oil, Gas, Production) Shallow Deep

2) WELL OPERATOR: Stoney Run (MT 22 B 1)

3) WELL OPERATOR ADDRESS: Stoney Run, West Virginia, Barbour County, West Virginia, 26201

4) OFF & GAS INSPECTOR TO BE NOTIFIED: Phillip Tracy, General Delivery, Billimore, WV, 26264

5) PROPOSED WELL WORK: Drill Plug Other physical change in well (specify) _____

6) GEOLOGICAL TARGET FORMATION: Laverdy

7) ESTIMATED DEPTH OF COMPLETED WELL: 1580'

8) APPROXIMATE TEST DEPTHS: 1550' to 1500'

9) APPROXIMATE COAL STRATA DEPTHS: 1550' to 1500'

10) IS COAL BEING MINED IN THE AREA? Yes No

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: _____

Reason	Planned	Case	Fee
BB	mta	mta	mta



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 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: 1705' Watershed: Stoney Run
 District: Cove County: Barbour Quadrangle: Nestorville
- 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 Phillip Tracy Name S.W. Jack Drilling Co.
 Address General Delivery Address P.O. Box 48
Bellmore, WV 26267 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
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 13) Approximate strata depths: Fresh, 65' feet; salt, 0' feet.
 14) Approximate coal seam depths: 125' to 420' 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	<u>13/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>30</u>	<u>0</u>	<u>0 sks</u>	Kinds
Fresh water	<u>85/8</u>	<u>ERW</u>	<u>23</u>	<u>X</u>		<u>1000</u>	<u>1000</u>	<u>To surface</u>	Sizes
Coal	<u>85/8</u>	<u>ERW</u>	<u>23</u>	<u>X</u>		<u>1000</u>	<u>1000</u>	<u>To surface</u>	Depths set
Intermediate									Perforations:
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5750</u>	<u>5750</u>	<u>350 sks.</u>	Top Bottom
Tubing									
Liners									

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 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.)

NAME: _____
 By _____
 Its _____ Date _____

(For execution by natural persons)

Carl F. Nestor Date 5-24-84
 (Signature) _____
 (Signature) _____ Date _____

**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 22, Article 4 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 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, West Virginia 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 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 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 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 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.

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2) Operator's Well No. J-1005
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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 Carl F. Nestor
Address 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 Sarah Mellon Scaife Fnd.
Address Eastern Assoc. Coal Corp.
Charleston National Bank
Name c/o Guffey & Hair Trust
Address (See Attached Page)

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
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.

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? XXX 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 Reddecliff

this 15 day of May, 1984.
My commission expires 4/18, 1992.

Edward A. Sennepf
Notary Public, upshur County,
State of W.Va.

WELL OPERATOR J&J ENTERPRISES, INC.

By Richard M. Reddecliff
Its Designated Agent
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

DEPARTMENT OF MINES
OFFICE OF OIL AND GAS DIVISION

RECEIVED
MAY 25 1984

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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
<i>Carl F. & Kathryn I. Nester</i>	<i>Beckler Energy Inc.</i>	<i>1/8-150%</i>	<i>99/611</i>
	<i>Assigned to</i>		
	<i>J & J Enterprises, Inc.</i>		<i>97/560</i>

To be attached to the IV-2(A).

LIST OF COAL OWNERS

SARAH MELLON SCAIFE FOUNDATION
c/o Mr. Richard Larry
PO Box 268
Pittsburgh, PA. 15230

3/8 Interest

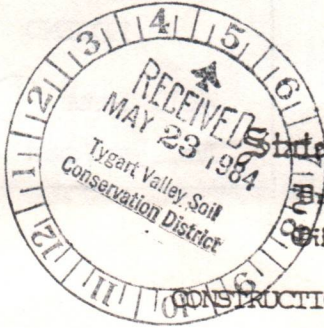
EASTERN ASSOCIATED COAL CORP.
Koppers Building
Pittsburgh, PA 15219

The CHARLESTON NATIONAL BANK, as trustee
PO Box 1113
Charleston, West Virginia 25324
attn: Barbara Hively

DEPT. OF MINES
OIL & GAS DIVISION

MAY 25 1984

RECEIVED



DATE 11 May 1984
WELL NO. J-1005
API NO. 47-001-2079

State of West Virginia
Department of Mines
Oil and Gas Division
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 Carl F. Nestor
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: 5-27-84

(Date)
Junior Reddicliff
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culverts (A)
Spacing As shown and as needed.
(15" min. when leaving 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 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.

HAY MEADOWS

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 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Rye 5 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* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Rye 5 lbs/acre

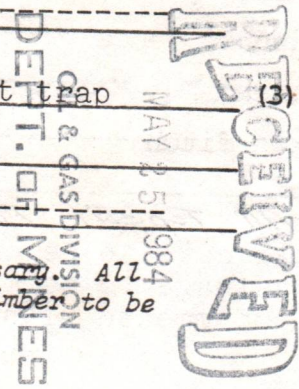
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

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 471 413 556
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

J-1005

Sent to	Eastern Assoc. Coal Corp	
Street and No.	Koppers Bldg.	
P.O., State and ZIP Code	Pittsburg, Pa. 15219	
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 of Delivery		
TOTAL Postage and Fees	\$ 172	
Postmark or Date	MAY 23 1984 BUCKHANNON	

★ U.S.G.P.O. 1983-403-517

P 534 412 873
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

J-1005

Sent to	Carl F. Nestor	
Street and No.	Rt. 2	
P.O., State and ZIP Code	Phillippi, WV 26416	
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 of Delivery		
TOTAL Postage and Fees	\$ 172	
Postmark or Date	MAY 23 1984 BUCKHANNON	

RECEIVED
 MAY 23 1984

SENIM FO. 1230
 NOISIAID SAV & TIO

★ U.S.G.P.O. 1983-403-517

P 534 412 874
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

J-1005

Sent to	Sarah Mellon Scalfé Fnd.	
Street and No.	P.O. Box 268	
P.O., State and ZIP Code	Pittsburg, Pa. 15230	
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 of Delivery		
TOTAL Postage and Fees	\$ 172	
Postmark or Date	MAY 23 1984 BUCKHANNON	

★ U.S.G.P.O. 1983-403-517

P 534 412 875
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

J-1005

Sent to	Charleston National Bank	
Street and No.	Steele and W. Jeffrey & Hair Trust	
P.O., State and ZIP Code	Charleston, WV 25324	
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 of Delivery		
TOTAL Postage and Fees	\$ 172	
Postmark or Date	MAY 23 1984 BUCKHANNON	

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

Haverty: Perforations: 5396-5426 (14 holes)
 Fracturing: 350 sks. 20/40 sand:100 sks. 80/100 sand:
 Elks: Perforations: 4611-4687 (12 holes) 4359-4382 (12 holes)
 Fracturing: 350 sks. 20/40 sand: 500 gal. acid: 260 sks. 20/40 sand: 500 gal. acid.
 Benson: Perforations: 4162-4165 (12 holes)
 Fracturing: 250 sks. 20/40 sand: 500 gal. acid.



BOTTOM HOLE PRESSURE Pf=Pwe XGLS $\frac{1}{1}$ $\frac{1}{1}$
 $t=60+(0.0075 \times 5609) + 459.7=562$ $X=53.35 \times 562 =29983$ $=0.000033$ $Pf=1200 \times 2.72^{(0.000033)}(0.663)$
 $(4794)(0.9) = 1200 \times 2.72^{0.09} =1200 \times 1.1$

Pf=1320 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	
Shale & sand			5	30	½" stream @ 30'
Coal			30	33	
Sand & shale			33	200	1" stream @ 1695
Sand & shale			200	320	
Sandy shale & sand			320	675	Gas ck @ 1767 No show
Coal			675	678	
Sand & shale			678	720	Gas ck @ 2297 No show
Shale, sand & red rock			720	785	
White sand			785	815	Gas ck @ 3233 No show
Red rock, sand & shale			815	1470	
Lime			1470	1625	Gas ck @ 3419 No show
Lime and Sand			1625	1780	
Sand, shale & red rock			1780	3175	Gas ck @ 3914 No show
Shale & red rock			3175	4162	
Benson			4162	4165	Gas ck @ 4598 No show
Sand & shale			4165	4359	
Elks			4359	4382	
Sand & shale			4382	4611	
Elks			4611	4687	
Sand & shale			4687	5396	
Haverty			5396	5426	
Sand & shale			5426	5745	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Robert Dahlin Robert Dahlin-Geologist

Date: 9/18/84

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 ~~encountered~~, encountered in the drilling of a well."



RECEIVED
SEP 19 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date September 18, 1984
Operator's Well No. J-1005
Farm Nestor
API No. 47 - 001 - 2079

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: 1705 Watershed Stoney Run
District: Cove County Barbour Quadrangle Nestorville

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 Carl F. Nestor
ADDRESS Rt. 2, Philippi, WV 26416
MINERAL RIGHTS OWNER Same as surface
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Phillip
Tracy ADDRESS Forrest Festival Terrace
Apt. 24, Elkins, WV 26241
PERMIT ISSUED 6/12/84
DRILLING COMMENCED 8/1/84
DRILLING COMPLETED 8/7/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	19.50	19.50	0 sks.
9 5/8			
8 5/8	1121.60	1121.60	275 sks.
7			
5 1/2			
4 1/2	5608.75	5608.75	410 sks.
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Haverty Depth 5396-5426 feet
Depth of completed well 5745 feet Rotary x / Cable Tools
Water strata depth: Fresh 30,1965 feet; Salt 0 feet
Coal seam depths: 30-33,675-678 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5396-5426 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 198 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1200 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Elks, Benson Pay zone depth 4162-4165 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)

BAR
2079

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

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JUN 13 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2079

Oil or Gas Well _____
(KIND)

Company	Address	Farm	Well No.	District	County	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
						Size			Kind of Packer
<u>J+J</u>		<u>CARL Nestor</u>	<u>J-1005</u>		<u>BARB</u>	16			
						13			
						10			Size of
						8 1/4			Depth set
						6 5/8			
						5 3/16			
						3			Perf. top
						2			Perf. bottom
						Liners Used			Perf. top
									Perf. bottom

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 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 S.W. Jacie

Remarks: Check ROAD & Location, Rec plan

6/14/84
DATE

Beall - (501)
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2019

Oil or Gas Well _____
(KIND)

Company <u>J+J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Carl Nestor</u>	16			
Well No. <u>J-1005</u>	13			
District _____ County <u>BARBOUR</u>	10			Size of _____
Drilling commenced <u>8-1-84</u>	8 3/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACK Rig 23

Remarks: Rig on

8/1/84
DATE

RG Brace
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2079

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J & J</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>C. Nestor</u>	13			
Well No. <u>J-1005</u>	10			Size of _____
District _____ County <u>001</u>	8 1/8	<u>1121'</u>	<u>1121'</u>	<u>27554c</u>
Drilling commenced <u>8/1/84</u>	6 3/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACK RIG #23

Remarks: Dug @ - 4039 - A.M.

8/6/84
DATE

RC-Res 11 (501)
DISTRICT WELL INSPECTOR

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

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INSPECTOR'S WELL REPORT
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2079

Oil or Gas Well _____
(KIND)

Company J+J

Address _____

Farm Carl Nestor

Well No. J-1005

District _____ County 001

Drilling commenced _____

Drilling completed 8/8 Total depth 5745

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			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			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 S.W. JACO Rig #23

Remarks: T.D - Logging - Ready to Run 4 1/2" - 4 Rig Dn. -

8/8/84
DATE

RG Beall (501)
DISTRICT WELL INSPECTOR

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

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OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No 001-2079

Oil or Gas Well _____
(KIND)

Company _____ Address _____ Farm _____ Well No. _____ District _____ County <u>001</u> 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			
	10			Size of _____
	8 1/4			
	6 5/8			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
	Liners Used			Perf. top _____
				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 _____

Remarks: Start Grading location

7/9/84
DATE

RG Beave
DISTRICT WELL INSPECTOR

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

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OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2079

Oil or Gas Well _____
(KIND)

Company <u>J & J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			Kind of Packer _____
Farm <u>C. NESTOR</u>	16			
Well No. _____	13			Size of _____
District _____ County <u>001</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names CONT. - Williams

Remarks: Begin Backfilling location

8/21/84
DATE

RG BEALL - 501 -
DISTRICT WELL INSPECTOR



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JUL 9 - 1985

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
October 17, 1984

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

PERMIT NO 001-2079 (6-12-84)
FARM & WELL NO Carl Nestor
DIST. & COUNTY Cove/Barbour

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

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

SIGNED *Donald E. ...*

DATE 7-5-85

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. ...

Administrator-Oil & Gas Division

July 18, 1985

DATE

FERC-121

1.0 API well number (If not available, leave blank. 14 digits.)	47-001-2079			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code		
3.0 Depth of the deepest completion injection. (Only fill in if sections 103 or 105 in 2.0 above.)	4687 feet			
4.0 Name, address and code number of applicant. (35 letters per line maximum. If code number not available, leave blank.)	J & J Enterprises, Inc. Name P.O. Box 697		009480 Seller Code	
	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.)	Cove Field Name Barbour		WVA 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.)	J-1005			
(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.)	Tennessee Gas Pipeline Co. Name		Buyer Code	
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated annual production:	MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	2 9 2 5	-----	2 7 8	3 2 0
8.0 Maximum royalty rate (As of filing date. Complete to 3 decimal places.)	2 9 2 5	-----	2 7 8	3 2 0
9.0 Person responsible for this application	Richard J. Kline Secretary			
Agency Use Only	Name Richard J. Kline		Title	
Date Received by Joint Agency	Signature		Date	
Date Received by FERC	9-20-84		(412) 349-6800	
	Date Application is Completed		Phone Number	

SEP 26 1984

OCT 16 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Sept. 20, 1984

AGENCY USE ONLY

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: Tennessee Gas Pipeline Company

Address: P.O. Box 2511
(Street or P.O. Box)
Houston, Texas 77001
(City) (State) (Zip Code)

FERC Seller Code _____

WELL DETERMINATION FILE NUMBER
840926-103-001-2079
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 _____

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

Name: Vicki Vanderberg _____ (Title)

Signature: *Vicki Vanderberg* _____ (Title)

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 Geopressed Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED

RECEIVED

SEP 26 1984

OIL & GAS DIV.
DEPT. OF MINES

Date Received _____

Determination Date _____

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

Date Sept 20, 1984

Operator's Well No. J-1005

API Well No. 47 - 001 - 2079
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 1705
Watershed Stoney Run
Disc. Cove County Barbour Quad Nestorville

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: August 1, 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 $P_f = P_{we} \times GLS$

$$t = 60 + (0.0075 \times 5609) + 459.7 = 562 \quad X = \frac{1}{53.35} \times 562 = 29983 \quad = 0.000033 \quad P_f = 1200 \times 2.72 (0.000033) (0.66)$$

$$(4794) (0.9) = 1200 \times 2.72^{0.09} = 1200 \times 1.1$$

Pf=1320 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 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 20 day of Sept, 1984, has acknowledged the same before me, in my county aforesaid

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

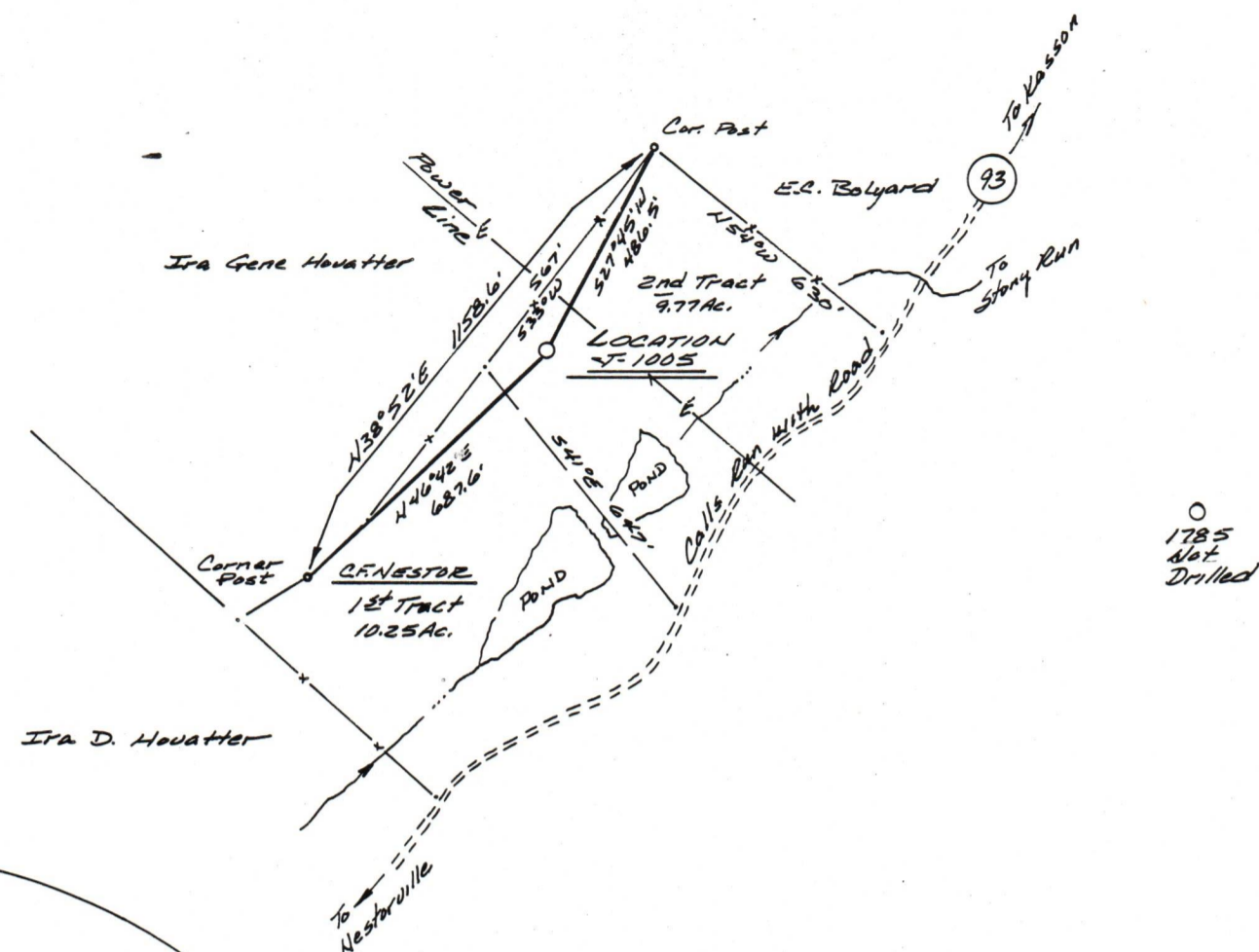
mw 6/8/84

1500'

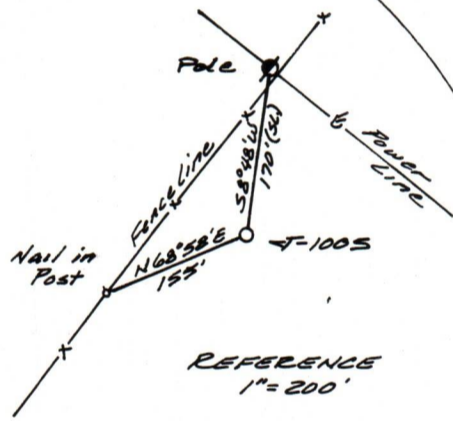
LATITUDE 39°15'00"

LONGITUDE 79°52'30"

NORTH



1785 Not Drilled



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

FILE NO. 346.01
 DRAWING NO. 84-63
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM-1462' @ Valley Furnace.

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 L. Ostrander
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 19 May, 19 84
 OPERATOR'S WELL NO. F-1005
 API WELL NO.

47 - 001 - 2079
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1705' WATERSHED Stony Run
 DISTRICT Cove COUNTY Barbour
 QUADRANGLE Nestorville ACREAGE 9.77
 SURFACE OWNER Carl F. Nestor et ux
 OIL & GAS ROYALTY OWNER Carl F. Nestor et ux LEASE ACREAGE 20.2
 LEASE NO. F-1619
 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 Haverty ESTIMATED DEPTH 5800'
 WELL OPERATOR JEST ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

COUNTY NAME PERMIT