



1) Date: 14 May, 19 84  
 2) Operator's Well No. J-977  
 3) API Well No. 47 - 001 - 2080  
 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: 1491 Watershed: Big Cove Run (MT20)  
 District: Cove County: Barbour Quadrangle: Colebank
- 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 trata 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		
Conductor	113/4	H-40	42	X		30	0	0 sks.
Fresh water	8 5/8	ERW	23	X		1000	1000	To surface
Coal	8 5/8	ERW	23	X		1000	1000	To surface
Intermediate								
Production	4 1/2	J-55	10.5	X		5750	5750	350 sks.
Tubing								
Liners								

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-001-2080 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>Blanket</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>1552</u>
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*[Signature]*  
 Administrator, Office of Oil and Gas

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

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

File

RECEIVED  
 DEPT. OF MINES  
 MAY 25 1984  
 DISTRICT OIL AND GAS DIVISION





OFFICE USE ONLY

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

Form section for permit modifications and conditions, including fields for well location, operator, contractor, and proposed work details.

Table with columns for casing or tubing type, size, weight, and other specifications.

OFFICE USE ONLY

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

Table for recording dates of occurrences and follow-up inspections, with columns for 'Date' and 'Date(s)'.

Form section for 'OTHER INSPECTIONS' with fields for 'Reason' and a signature line.





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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 \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X \_\_\_\_\_)
- 5) LOCATION: Elevation: 1491 Watershed: Big Cove Run  
 District: Cove County: Barbour Quadrangle: Colebank
- 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  
Williamore, 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
- 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 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>11 3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>30</u>	<u>0</u>	<u>0</u>	Kinds
Fresh water	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<u>X</u>		<u>1000</u>	<u>1000</u>	<u>To surface</u>	Sizes
Coal	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<u>X</u>		<u>1000</u>	<u>1000</u>	<u>To surface</u>	Depths
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									

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The 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 the filing of the Application.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner ✓ / lessee \_\_\_\_\_ / of the coal under this well location has 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: May 23, 19 84  
 By William R. Kohl  
 Its Geologist



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
<i>Thomas &amp; Goldie Hardin &amp; etal</i>	<i>Beckler Energy, Inc.</i>	<i>1/8-100%</i>	<i>97/63, 97/190</i>
	<i>Assignment To</i>		
	<i>T &amp; T Enterprises, Inc.</i>		<i>99/611</i>



1) Date: 14 May, 1984  
2) Operator's  
Well No. J-977  
3) API Well No. 47 - 001 - 2080  
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 Thomas Hardin etal  
Address Rt.1, Box 233  
Moatsville, WV 26405

(ii) Name Ms. Noreen Wise  
Address P.O. Box 363  
Byhalia, MS 38611

(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR

Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Hillman Coal and Coke Co.  
Address 1900 Grant Bldg.  
Pittsburgh, Pa. 15219

Name \_\_\_\_\_  
Address \_\_\_\_\_

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? 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

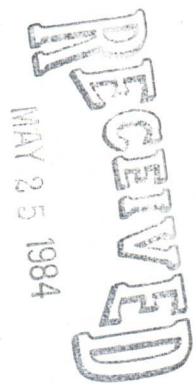
Richard M. Reddecliff  
this 22 day of May, 1984.  
My commission expires 10/16, 1989.

Linda S. Casfield  
Notary Public, Wasson County,  
State of West Virginia

WELL

OPERATOR J&J ENTERPRISES, INC.

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







1) Date: 14 May, 19 84  
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 State County Permit

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 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
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- 5) LOCATION: Elevation: 1491 Watershed: Big Cove Run  
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	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>11 3/4</u>	<u>N-40</u>	<u>42</u>	<input checked="" type="checkbox"/>		<u>30</u>	<u>0</u>	<u>0</u>	Kinds
Fresh water	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1000</u>	<u>1000</u>	<u>To surface</u>	
Coal	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1000</u>	<u>1000</u>	<u>To surface</u>	Sizes
Intermediate									Depths set
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5750</u>	<u>5750</u>	<u>350</u>	
Tubing									Perforations: Top Bottom
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.)

(For execution by natural persons)

NAME: \_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_ Date \_\_\_\_\_

X Thomas Hardin Date: 5/24/84  
 (Signature)

Galdie Hardin Date: 5/24/84  
 (Signature)



**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.”

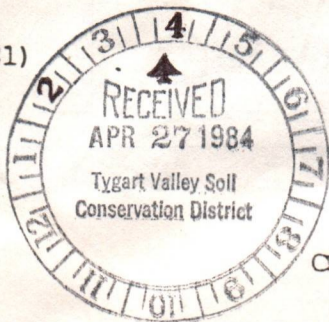
**If you want a copy of the permit** as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

**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.





IV-9  
(Rev 8-81)



DATE 26 April 1984  
WEIL NO. J-977  
API NO. 47-001-2080

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J&J Enterprises, Inc.  
Address PO BOX 40  
Buckhannon, WV 26201  
Telephone 304-472-9404

DESIGNATED AGENT Richard Reddicliff  
Address PO Box 40  
Buckhannon, WV 26201  
Telephone 304-472-9404

LANDOWNER THOMAS HARDIN, et al  
Revegetation to be carried out by J&J Enterprises, Inc.

SOIL CONS. DISTRICT Tygart Valley  
(Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections  
and additions become a part of this plan: 4/29/84

Jean Freeman  
(SCD Agent)

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 -----

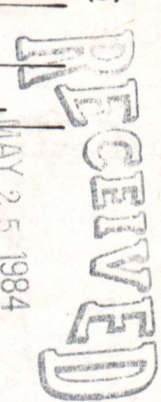
Structure Cross Drains (C)  
Spacing 5%-135' 15%-60'  
10%- 80' 20%-45'  
Page Ref. Manual 2-4

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.

DEPT. OF MINES  
OIL & GAS DIVISION

MAY 25 1984



REVEGETATION

WOODS & PASTURE FIELD  
Treatment Area I

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

Treatment Area II  
Lime 3 Tons/acre  
or correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch 2 Tons/acre  
Seed K.V-31 Tall Fescue 30 lbs/acre  
Birdsfoot  
Annual Rye 10 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.

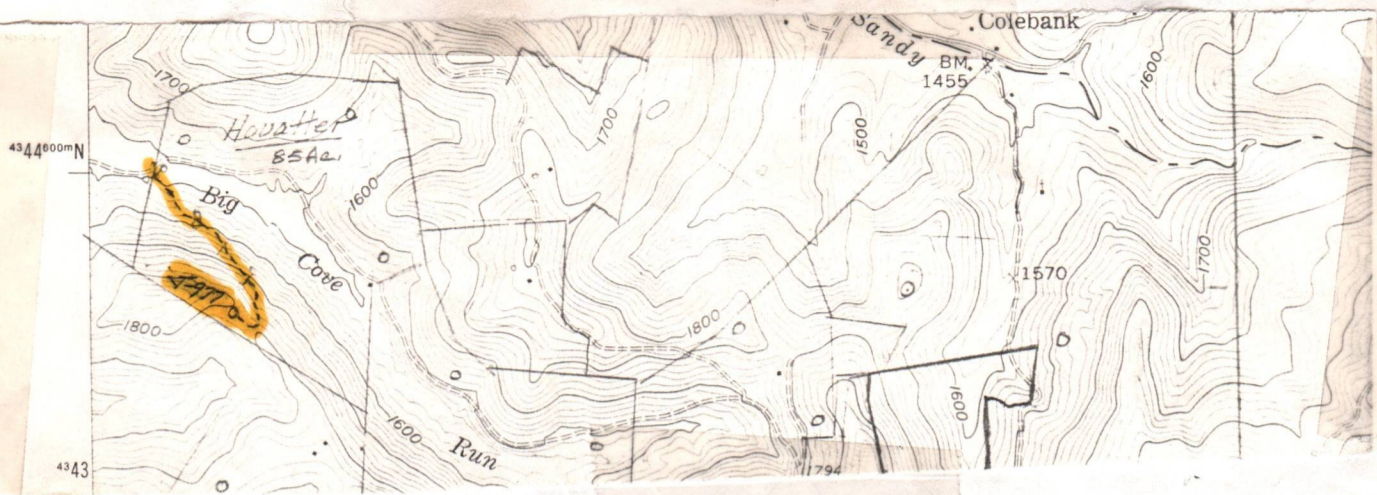


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. TRIANGLE COLEBANK

**LEGEND**

Well Site ⊕

Access Road ———



**WELL SITE PLAN**

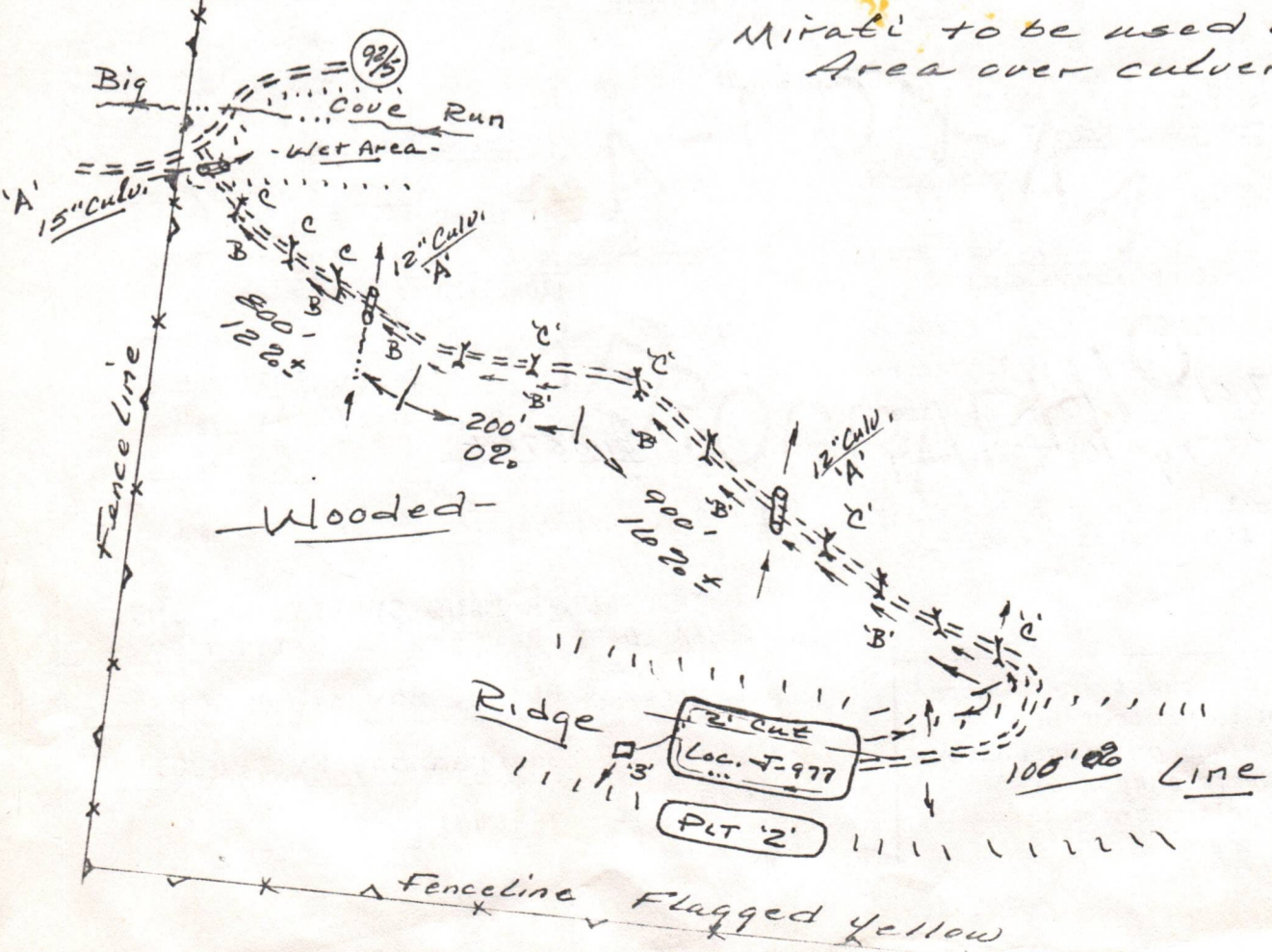
Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

**LEGEND**

Property boundary	⋈⋈⋈⋈⋈	Diversion	⋈⋈⋈⋈⋈⋈⋈⋈⋈⋈
Road	== == == == ==	Spring	○ →
Existing fence	— x — x —	Wet spot	⊕
Planned fence	— / — / —	Building	□
Stream	~ ~ ~ ~ ~	Drain pipe	— ○ — ○ — ○ —
Open ditch	— ···· — ···· — ···· —	Waterway	⊂ ⊃ ⊃ ⊃ ⊃

- Top soil to be stockpiled.
- 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.

*Mirali to be used in Wet Area over culvert.*





RECEIVED  
MAY 25 1984

OIL & GAS DIVISION  
DEPT. OF MINES

P 471 414 395  
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse) 9-422

Form 3800, Feb. 1982

Sent to	Mrs. Dawson White	
Street and No.	P.O. Box 363	
P.O., State and ZIP Code	Byhaloe, Ms 38611	
Postage	\$	.32
Certified Fee		.25
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		\$1.22
Postmark or MDY	24 MAY 1984	

DA J EN 1984 RISES, INC.  
P.O. BOX 4



SENIM JO. DEPT.  
DIVISION & GAS TIL

MAY 25 1984

RECEIVED

P 534 412 857

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse) J-977

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Sent to	Thomas Hardin et al
Street and No.	Rt. 1, Box 233
P.O. State and ZIP Code	Moatsville, WV 26405
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 25 1984 WV

P 534 412 840

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse) J-977

PS Form 3800, Feb. 1982

★ U.S.G.P.O. 1983-403-517

Sent to	Hillman Coal and Coke
Street and No.	1900 Grant Bldg.
P.O. State and ZIP Code	Pittsburgh, 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 25 1984 WV



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

Haverty: Perforations: 5557-63 (6 holes) 5585-87 (2 Holes) 5608-10(6 holes)  
 Fracturing: 300 sks. 20/40 sand: 585 Bbls. fluid.  
 3rd Elk: Perforations: 5227-30 (9)holes)5243-45(4 holes)  
 Fracturing: 250 sks. 20/40 sand:500 gal. acid: 432 Bbls. fluid.  
 1st Elk: Perforations: 4538-41 (6 holes) 4563-67 (6 holes)  
 Fracturing: 300 sks. 20/40 sand:500 gal. acid:500 Bbls. fluid.  
 Benson: Perforations:4338-40 (7 holes)4399-4401(7 holes)  
 Fracturing: 400 sks. 20/40 sand:500 gal. acid:660 Bbls. fluid.

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

$$t = 60 + (0.0075 \times 5774) + 459.7 = 563 \quad X = \frac{1}{53.35} \times \frac{1}{30036} = 0.000033 \quad P_f = 850 \times 2.72^{(0.000033)(0.663)(4974)}$$

$$(0.9) = 850 \times 2.72^{0.098} = 850 \times 1.1$$

WELL LOG

Pf=935 psi

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	50	
Sand & shale			50	106	1" stream @ 73'
Red rock, shale & sand			106	175	
Sand, black shale & sand			175	310	1½" stream @ 317
Red rock, shale & sand			310	430	
White sand & shale			430	475	Damp @ 1320
Coal			475	480	
Shale & sand			480	560	Gas ck @ 1558 No show
Coal			560	563	
Sand & shale			563	783	Gas ck @ 2544 No show
Coal			783	785	
Shale & sand			785	1151	Gas ck @ 3187 No show
Shale & red rock			1151	1220	
Little Lime			1220	1390	Gas ck @ 3960 No show
Red rock and Shale			1390	1610	
Big Lime & Injun			1610	1819	Gas ck @ 4850 No show
Sand & shale			1819	2928	
Sand & shale			2928	3610	Gas ck @ 5200 No show
Sand & shale			3610	4338	
Benson			4338	4401	Gas ck @ 5709 No show
Sand & shale			4401	4538	
1st Elk			4538	4567	Gas ck @ T.D. No show
Shale & sand			4567	5227	
3rd ELk			5227	5245	
Sand & shale			5245	5557	
Haverty			5557	5610	
Sand & shale			5610	5901	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:  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 coal, encountered in the drilling of a well."



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SEP 19 1984



OIL & GAS DIVISION
DEPT. OF MINES State of West Virginia
Department of Mines
Oil and Gas Division

IV-35
(Rev 8-81)

Date September 18, 1984
Operator's
Well No. J-977
Farm Hardin
API No. 47 - 001 - 2080

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: 1491 Watershed Big Cove Run
District: Cove County Barbour Quadrangle Colebank

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 Thomas Hardin

ADDRESS Rt. # 1, Box 233, Moatsville, WV 26405

MINERAL RIGHTS OWNER Same as surface

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Phillip
Tracy ADDRESS Apt 24, Forrest Festival
Terrace, Elkins, WV 26241

PERMIT ISSUED 6/12/84

DRILLING COMMENCED 8/7/84

DRILLING COMPLETED 8/12/84

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

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Haverty Depth 5557-5610 feet
Depth of completed well 5901 feet Rotary x / Cable Tools
Water strata depth: Fresh 73,317 feet; Salt 0 feet
Coal seam depths: 475-80,560-63,783-85 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Haverty Pay zone depth 5557-5610 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 15 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 850 psig(surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)

Second producing formation 3rd ELk, 1st ELk, & Pay zone depth 4338-4401, 4538-4567, 5227-5245 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)



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

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JUL 23 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 001-2080

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>J &amp; J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>HARDIN</u>	16			Kind of Packer _____
Well No. <u>J-977</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names \_\_\_\_\_

Remarks: Spot location, check Rec plan -  
Begin clearing

7/19/84  
DATE

RC Rees 501  
DISTRICT WELL 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

\_\_\_\_\_  
DISTRICT WELL INSPECTOR



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

RECEIVED  
AUG - 9 1984

INSPECTOR'S WELL REPORT

Permit No. 001-2080

OIL & GAS DIVISION  
DEPT. OF MINES  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J &amp; J</u>	Size			
Address	16			Kind of Packer
Farm <u>T. HARDING</u>	13			
Well No. <u>J-977</u>	10			Size of
District _____ County <u>001</u>	8 1/4			
Drilling commenced <u>8/6/84</u>	6 5/8			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 S.W. JACO RIG #1

Remarks: Rig on start day

8/6/84  
DATE

R.G. BAII (501)  
DISTRICT WELL 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

\_\_\_\_\_ DISTRICT WELL INSPECTOR



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

RECEIVED  
AUG 10 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2080

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>J &amp; J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>TOM HARDIN</u>	16			Kind of Packer _____
Well No. <u>J-977</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names J.W. JACK Rig #1

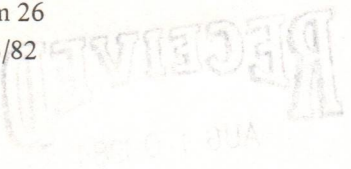
Remarks: Drilling @ - 667

8/8/84  
DATE

R.G. Reese (501)  
DISTRICT WELL INSPECTOR



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			Packer				
Location		Amount	Location		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

\_\_\_\_\_  
DISTRICT WELL INSPECTOR



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

RECEIVED  
AUG 14 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2080

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J4J</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>T. HADDIN</u>	13			
Well No. <u>J-977</u>	10			Size of _____
District _____ County <u>001</u>	8 1/4			
Drilling commenced _____	6 5/8			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 JACIE - Rig #1

Remarks: Dug @ - 3860  
Road Very Steep

8/11/84  
DATE

RG Beall -501  
DISTRICT WELL 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

\_\_\_\_\_  
DISTRICT WELL INSPECTOR



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

RECEIVED  
AUG 15 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2080

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>T. HARDIN</u>	13			
Well No. <u>J-977</u>	10			Size of _____
District _____ County <u>001</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed <u>8/13/84</u> Total depth <u>5901</u>	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 S.W. JACK Rig #1-

Remarks: T.D., Logging -

8/13/84

DATE

R.G. Beall (501)

DISTRICT WELL INSPECTOR



**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

\_\_\_\_\_ DISTRICT WELL INSPECTOR



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

RECEIVED  
OCT 15 1984

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

Permit No. 001-2080

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>J&amp;J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>TOM HARDIN</u>	Size			Kind of Packer _____
Farm <u>5</u>	16			
Well No. <u>J-977</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names \_\_\_\_\_

Remarks: Rough heading started - Too wet to continue

10/10/84  
DATE

R G Beale  
DISTRICT WELL INSPECTOR



**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

\_\_\_\_\_  
DISTRICT WELL INSPECTOR





**RECEIVED**  
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 001-2080 (6-12-84)  
FARM & WELL NO Thomas Hardin #J-977  
DIST. & COUNTY Cove/Barbour

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 checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<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 *Robert R. Ellis*

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 Well number (If not available, leave blank. 14 digits.)	47-001-2080			
2.0 Type of determination being sought. (Use the codes found on the front of this form.)	103 <small>Section of NGPA</small>	N/A <small>Category Code</small>		
3.0 Depth of the deepest completion formation. (Only use if sections 103 or 107 in 2.0 above.)	5245 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>Seller Code</small>	
	P.O. Box 697 <small>Street</small>			
	Indiana,	Pa	15701 <small>State Zip Code</small>	
5.0 Location of this well. Complete (a) or (b): (a) For onshore wells (35 letters maximum for field name.)	Cove <small>Field Name</small>		WVA <small>State</small>	
	Barbour <small>County</small>			
(b) For OCS wells	N/A <small>Area Name</small>		 <small>Block Number</small>	
	Date of Lease: Mo. Day Yr.		 <small>OCS Lease Number</small>	
(c) Name and identification number of this well. (35 letters and digits maximum.)	J-977			
(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 Company <small>Name</small>		 <small>Buyer Code</small>	
(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.)	2.925	---	.278	3.20
8.0 Maximum royalty rate (As of filing date. Complete to 3 decimal places.)	2.925	---	.278	3.20
9.0 Person responsible for this application	Richard J. Kline <small>Name</small> Secretary <small>Title</small>			
<small>Agency Use Only</small>	<i>Richard J. Kline</i> <small>Signature</small>			
<small>Date Received by Juris. Agency</small>	9-20-84 <small>Date Application is Considered</small>			
<b>SEP 26 1984</b> <small>Date Received by FERC</small>	(412) 349-6800 <small>Office Address</small>			



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  
840926-103-001-2080  
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  
(Print) \_\_\_\_\_ (Title) \_\_\_\_\_

Signature: *Vicki Vanderberg*

Address: P.O. Box 697  
(Street or P.O. Box)  
Indiana, PA. 15701

Telephone: { 412 } { 349-6800 } (Zip Code)  
(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 Geopressed 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**

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-977  
API Well No. 47 - 001 - 2080  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

WELL OPERATOR J & J Enterprises, Inc.

ADDRESS P. O. Box 697  
Indiana, PA 15701

GAS PURCHASER Tennessee Gas Pipeline Co.

ADDRESS P.O. Box 2511  
Houston, Texas 77001

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

LOCATION: Elevation 1491  
Watershed Big Cove Run  
Dist. Cove County Barbour Quad. Colebank

Gas Purchase Contract No. \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: August 7, 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.

$$\frac{1}{x} = 30036 = 0.000033 \text{ Pf}$$

I, James H. McElwain, surface drilling of the well for which 1977; the well satisfies applicable state within a proration unit, in existence at reservoir from which gas is or will be produced in commercial quantities or on which surface was capable of producing gas in commercial quantities. The best of my information, knowledge and belief, is a new onshore production well and that I am not application which is inconsistent with this conclusion.

According to law state that was begun on or after February 19, requirements and the well is not began, which was applicable to the to any other well producing gas after February 19, 1977, and which further, that I have concluded, to which this determination is sought information not described in the

J. 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 ~~XXXXXXXXXX~~ 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





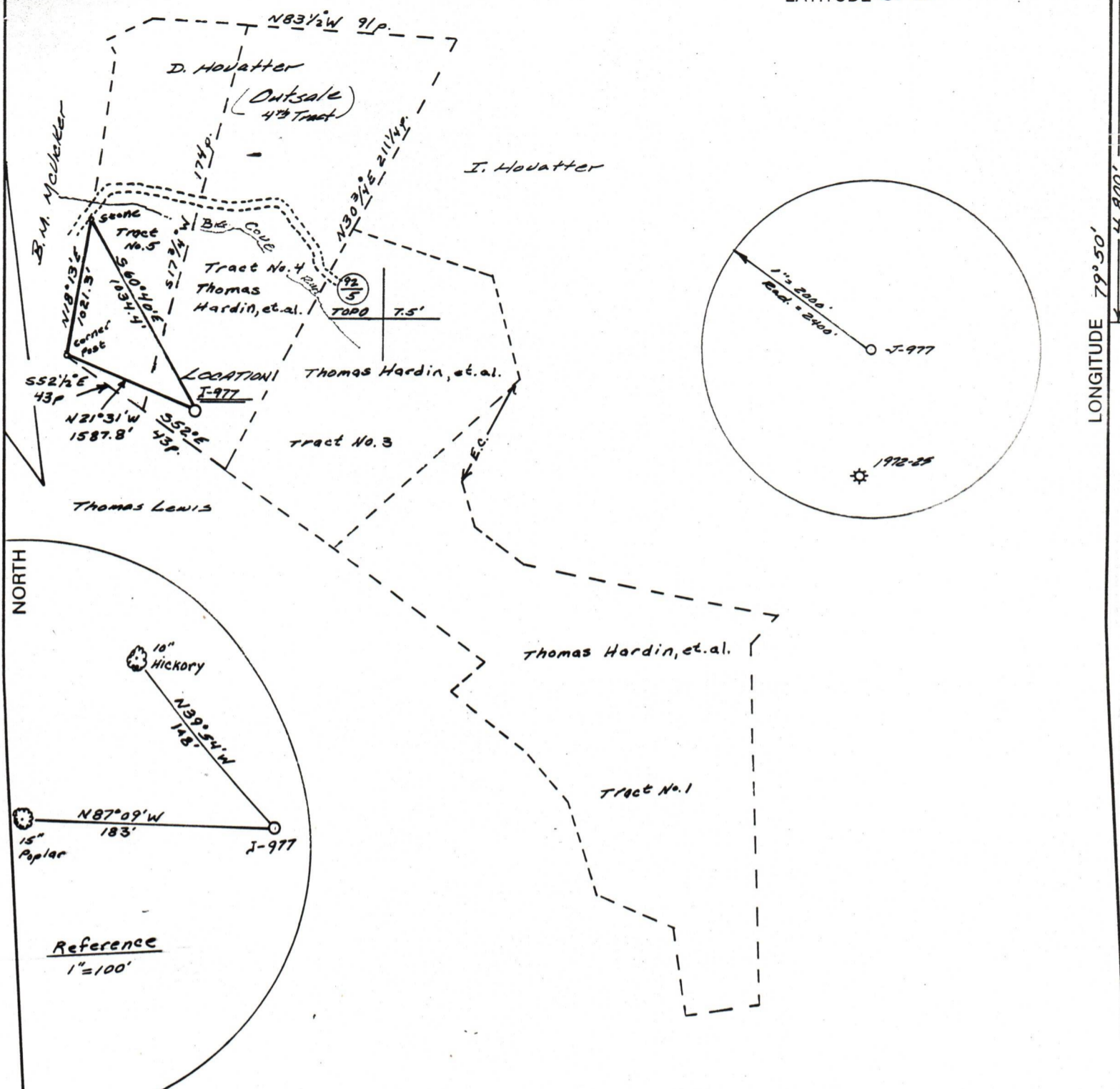


777/11 6/8/84

10,330'

LATITUDE 39°15'

LONGITUDE 79°50'



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

FILE NO. 346.01  
 DRAWING NO. 84-47  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200'  
 PROVEN SOURCE OF ELEVATION Spot elev. - 1491  
on Nestorville Quad. West of Location.

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) Clyde J. Osterlander  
 R.P.E. \_\_\_\_\_ L.L.S. 555  
Buckhannon, WV

PLACE SEAL HERE

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



DATE 9 MAY, 19 84  
 OPERATOR'S WELL NO. J-977  
 API WELL NO.

47 - 001 - 2080  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1795' WATER SHED Big Cove Run  
 DISTRICT Cove COUNTY Barbour  
 QUADRANGLE Colebank ACREAGE 76.5 Ac. 12.5 pl. Less outside  
 SURFACE OWNER Thomas Hardin, et al LEASE ACREAGE 234  
 OIL & GAS ROYALTY OWNER Thomas Hardin, et al LEASE NO. JJ-1620  
 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 5700'  
 WELL OPERATOR JEET ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECHIEF  
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

FORM IV-6 (8-78)

H.T. HALL

COUNTY NAME

PERMIT