



1) Date: 5 June, 19 84
 2) Operator's Well No. J-978
 3) API Well No. 47 - 001 - 2082
 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: 1733' Watershed: Sugar Creek (MT 24C)
 District: Glade County: Barbour Quadrange: Nestorville
- 6) WELL OPERATOR J&J ENTERPRISES, INC. 7) DESIGNATED AGENT Richard Reddecliff
 Address PO Box 48 Address PO Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name SW Jack Drilling Co.
 Address General Delivery Address PO Box 48
Ellamore, WV 26267 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, 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 XX

RECEIVED
 JUN 13 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	X		30	0	0 sks	Kinds
Fresh water	8 5/8	ERW	23	X		1000	1000	To surface	NEAT
Coal	8 5/8	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									or as req. by rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2082 Date June 13, 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 13, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>BLANKET</u>	<u>LS</u>	<u>MK</u>	<u>MA</u>	<u>1715</u>

[Signature]
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

1) WELL LOCATION: B (H "Gas", Production) 1733' Elevation: Glade District: PO Box 48, Buchanan, WV 26201

2) WELL OPERATOR: U.S. ENTERPRISES, INC. PO Box 48, Buchanan, WV 26201

3) DESIGNATED AGENT: Richard Redberger, PO Box 48, Buchanan, WV 26201

4) DRILLING CONTRACTOR: SW Jack Drilling Co., PO Box 48, Buchanan, WV 26201

5) PROPOSED WELL WORK: Drill X deeper / Plug old formation

6) GEOLOGICAL TARGET FORMATION: Haverly

7) ESTIMATED DEPTH OF COMPLETED WELL: 5800 feet

8) APPROXIMATE STRAIN DEPTHS: Fresh: 551 feet, Salt: 0 feet

9) APPROXIMATE SOIL SEAM DEPTHS: 125' to 150'

RECEIVED JUN 13 1984

DEPT. OF MINES OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	Weight per ft.	SPECIFICATIONS		FOOTAGE INTERVALS		Cement/Fill or Packers
				New	Used	Foot drilling	Foot in well	
Conductor	1 3/8" H-10	42		X		30	0	0 size
Fresh water	8" J-10	23		X		5750	5750	To surface
Coal	8" J-10	23		X		5750	5750	To surface
Intermediate	4 1/2" J-55	10.5		X		5750	5750	350 size

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	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

Application received _____ Follow-up inspection(s) _____

Well work started _____ " _____

Completion of the drilling process _____ " _____

Well Record received _____ " _____

Reclamation completed _____ " _____

OTHER INSPECTIONS

Reason: _____

Reason: _____

Agent: [Signature]	Plant: [Signature]	Casing: [Signature]	Rec: [Signature]
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1) Date: 5 June, 19 84
 2) Operator's Well No. J-978
 3) API Well No. 47 001
 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: 1733' Watershed: Sugar Creek
 District: Glade County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR: J&J ENTERPRISES, INC. 7) DESIGNATED AGENT: Richard Reddecliff
 Address: PO Box 48 Address: PO Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name: Phillip Tracy Name: SW Jack Drilling Co.
 Address: General Delivery Address: PO 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) _____
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RECEIVED
 JUN 13 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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>	<input checked="" type="checkbox"/>		<u>30</u>	<u>0</u>	<u>0 sks</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									
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 sks</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application 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 _____

Donald L Stemple Date: June 7 1984
 (Signature)
 _____ Date: _____
 (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.

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

Donald L. Stemple & Ethel Stemple J&J Enterprises, Inc.

Allof1/8-100# 50 313

1) Date: 5 June, 1984
2) Operator's Well No. J-978
3) API Well No. 47 - 001 - 2082
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 Donald L. Stemple
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 Hillman Coal and Coke Co.
Address 1900 Grant Building
Pittsburgh, Pa. 15219
Name C.C. Cornelieus, Trustee
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.

RECEIVED
JUN 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

- 6) EXTRACTION RIGHTS
Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 7) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

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 7 day of June, 1984.
My commission expires 11-18, 1992
Edmond H. Brumfield
Notary Public, Bartonsville County,
State of W. 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

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF West Virginia
COUNTY OF Barbour:

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. J-978 located in Glade District, Barbour County, West Virginia, upon the person or organization named--

Donald L. Stemple

--by delivering the same in Barbour County, State of WV on the 7th day of June, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

Handing it to him / her / or, because he / she refused to take it when I offered it, by leaving it in his / her presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

Handing it to the corporation's employee / officer / director / attorney in fact / named _____.

RECEIVED
JUN 13 1984
OIL & GAS DIVISION
DEPT. OF MINES


Reginald L. Ostrander
(Signature of person executing service)


Taken, subscribed and sworn before me this 7 day of June, 1984.
My commission expires 11/18/92

Echoval Johnson
Notary Public

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Nestorville

LEGEND

Well Site 











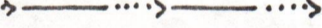
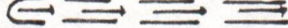
Access Road 



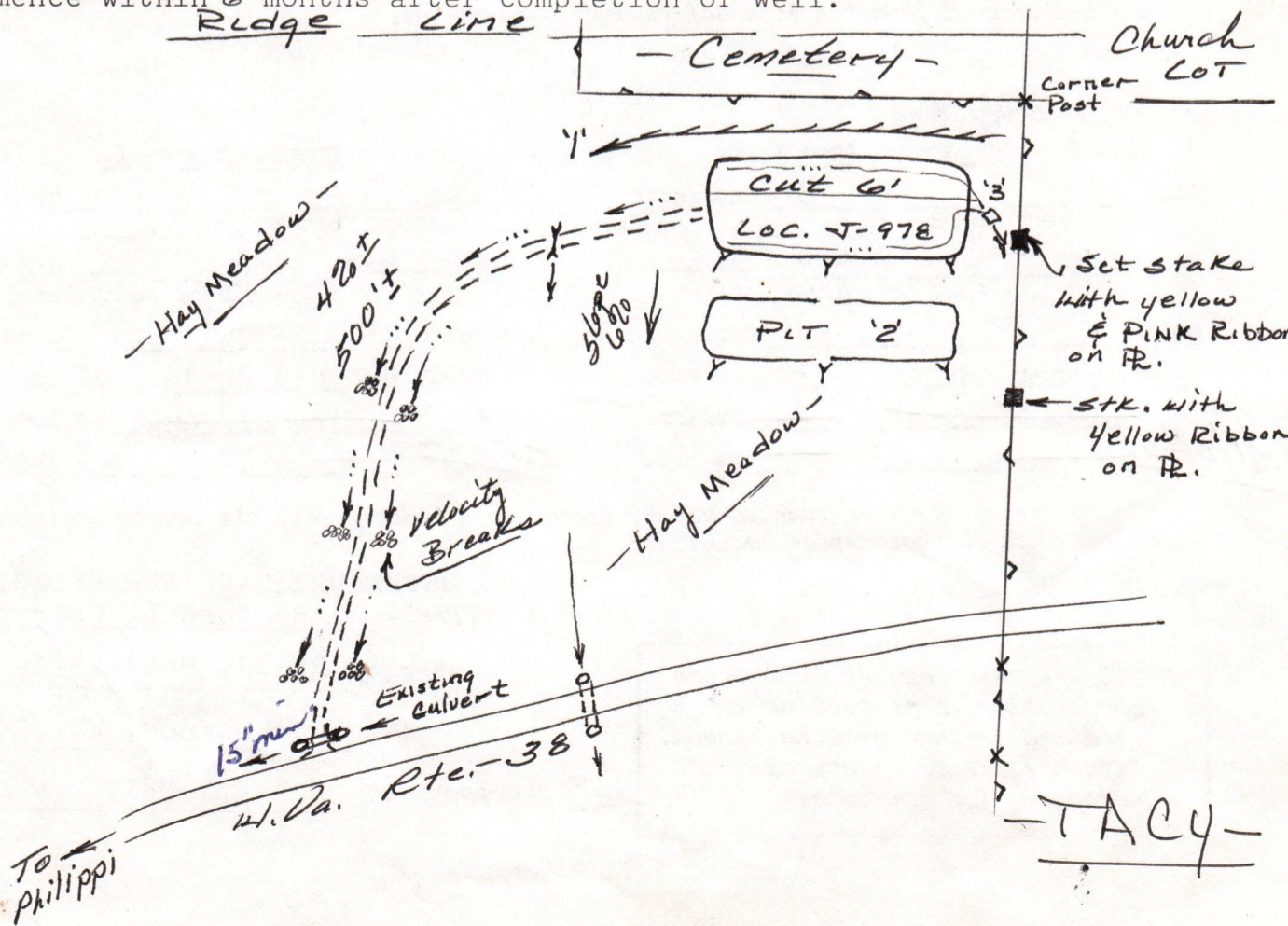
WELL SITE PLAN

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

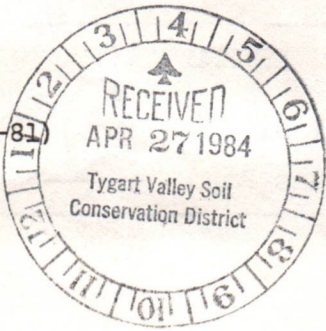
LEGEND

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

- All Topsoil to 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.



IV-9
(Rev 8-81)



DATE 26 April, 1984
WELL NO. T-978
API NO. 47-001-2082

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

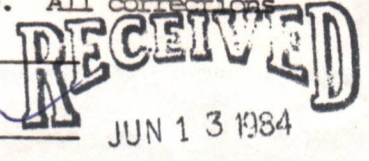
COMPANY NAME J&J Enterprises, Inc.
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

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

LANDOWNER Donald Stemple
Philippi, W.V. 26416
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: 4/28/84 (Date)
Jean Freeman (SCD Agent)



ACCESS ROAD

LOCATION OIL & GAS DIVISION
DEPT. OF MINES

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)
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.

HAY MEADOWS

REVEGETATION

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* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Alfalfa Rye 5 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* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Alfalfa 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 471 414 397

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse) JK-978, 90

Sent to Attn: William H. Kohl
HILLMAN COAL + Coke Co.
Street and No.
1960 Grant Building
Date and ZIP Code
Pittsburgh, PA 15219

Postage \$ 37

Certificate No. 75

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing
Date and Address of Delivery

60

TOTAL Postage and Fees \$ 72

Postmark or Date

J & J ENTERPRISES, INC.
P.O. BOX 48
BUCKLEBURN, WV 26201

RECEIVED
JUN 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED

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

Haverty: Perforations: 5231-33(8 holes) 5241-43(3 holes) 5252-53(3 holes) 5258-60(5 holes)
 Fracturing: 350 sks. 20/40 sand: 105 sks. 80/100 sand: 695 Bbls. fluid.
 1st. Elk: Perforations: 4755-56 (3 holes) 4874-77(12 holes)
 Fracturing: 250 sks. 20/40 sand: 500 gal. acid: 380 Bbls. fluid.
 3rd. Elk: 4242-47 (8 holes) 4463-66(6 holes)
 Fracturing: 250 sks. 20/40 sand: 500 gal. acid: 520 Bbls. fluid.

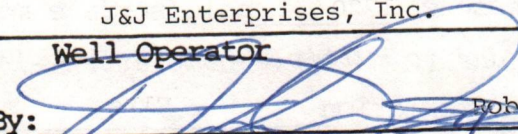
BOTTOM HOLE PRESSURE Pf=Pwe XGLS $\frac{1}{53.35} \times \frac{1}{29889} = 0.000033$ Pf=1720 x 2.72^(0.000033) (0.650
 t=60 +(0.0075) x 5405) + 459.7 = 560 X=53.35 x 560 $\frac{1}{29889} = 0.000033$ Pf=1720 x 2.72^(0.000033) (0.650
 (4751) (0.9) = 1720 x 2.72^{0.09} = 1720 x 1.1

Pf= 1892 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
Sandy shale			0	28	½" stream @ 290'
Sand & shale			28	612	
Coal			612	615	2" stream @ 1665'
Sand, shale & red rock			615	800	
Shale & red rock			800	839	Gas ck @ 1652 No show
Sand, red rock and shale			839	905	
Sand and shale			905	925	Gas ck @ 2651 No show
Red rock, shale & sand			925	1060	
Sand, shale & red rock			1060	1190	Gas ck @ 2963 No show
Little Lime			1190	1210	
Sand			1210	1240	Gas ck @ T.D. No show
Big Lime			1240	1434	
Sand & shale			1434	1610	
Big Injun			1610	1625	
Sand & shale			1625	2320	
Sand, shale & red rock			2320	4095	
Benson			4095	4120	
Sand & shale			4120	4242	
3rd ELk			4242	4466	
Sand & shale			4466	4755	
2nd and 1st Elk			4755	4877	
Sand & shale			4877	5231	
Haverty			5231	5260	
Sand & shale			5260	5746	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
 Well Operator
 By:  Robert Dahlin/Geologist
 Date: 8/6/84

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

RECEIVED

IV-35
(Rev 8-81)

AUG - 7 1984



OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 6, 1984
Operator's Well No. J-978
Farm Donald Stemple
API No. 47 - 001 - 2082

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: 1733 Watershed Sugar Creek
District: Glade 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 Donald Stemple

ADDRESS Rt. # 2, Philippi, WV 26416

MINERAL RIGHTS OWNER Same as surface

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Phillip

Tracy ADDRESS Forest Festival Terrace
Apt. 24, Elkins, WV

PERMIT ISSUED 6/13/84

DRILLING COMMENCED 6/25/84

DRILLING COMPLETED 6/30/84

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1161.20	1161.20	280 sks.
7			
5 1/2			
4 1/2	5405.10	5405.10	430 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5231-60 feet

Depth of completed well 5746 feet Rotary x / Cable Tools _____

Water strata depth: Fresh 290,1665 feet; Salt 0 feet

Coal seam depths: 612-15 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5231-60 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Combined Final open flow 582 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1720 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)

Second producing formation Elks Pay zone depth 4242-4466 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 2082

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

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JUN 18 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2082

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>D. Stemple</u>	13			
Well No. <u>J-978</u>	10			Size of _____
District _____ County <u>BARB</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 J.W. JACK

Remarks: Checked loc & Rd, Rec plan

6/14/84

Beall (501)

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

RECEIVED

JUN 27 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2082

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>Stemple</u>	13			
Well No. <u>#1</u>	10			Size of _____
District _____ County <u>001</u>	8 1/4			
Drilling commenced <input checked="" type="checkbox"/>	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. Jacz Rig #23

Remarks: Rig on

6/25/84
DATE

RC Beane
DISTRICT WELL INSPECTOR

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

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JUN 29 1984

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

Permit No. 001-2082

Oil or Gas Well _____
(KIND)

Company <u>J+J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Stersple</u>	16			
Well No. <u>J-998</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. JACIR Rig #23

Remarks: Ran 8 5/8 - P.M. -

6/26/84
DATE

RG Beal
DISTRICT WELL INSPECTOR

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

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JUL - 2 1984

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

Permit No. 001-2082

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>Stemple</u>	13			
Well No. <u>J-978</u>	10			Size of _____
District _____ County <u>001</u>	8 1/4			
Drilling commenced _____	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			

Drillers' Names S.W. JACK Rig #23

Remarks: check cement on 8 3/8

6/27/84
DATE

[Signature]
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. 001-2082

Oil or Gas Well _____
(KIND)

Company <u>J+J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
Address _____	16			Kind of Packer _____
Farm <u>steuple</u>	13			
Well No. <u>J-978</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 JACK RIG #23

Remarks: T.D. Run 4 1/2 & STACED - VAC

7/2/84
DATE

Ph... ..
DISTRICT WELL INSPECTOR

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

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JUL 11 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2082

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>Steep 6</u>	13			
Well No. <u>J-978</u>	10			Size of _____
District _____ County _____	8 1/4			
Drilling commenced _____	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 J & J Rig #23

Remarks: Rig off

7/9/84
DATE

RG Beace
DISTRICT WELL INSPECTOR

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

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JUL 27 1984

INSPECTOR'S WELL REPORT

Permit No. 001-2082

OIL & GAS DIVISION
DEPT. OF MINES

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>J & J</u>	Size			
Address	16			Kind of Packer
Farm <u>Stemple</u>	13			
Well No. <u># J-978</u>	10			Size of
District <u>GLADE</u> County <u>BARBOUR</u>	8 1/4			
Drilling commenced <u>6/24/84</u>	6 5/8			Depth set
Drilling completed <u>7/2/84</u> 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 _____

Remarks: Back filling pits - (Williams)

7/25/84

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
September 12, 1984

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

PERMIT NO 001-2082 (6-13-84)
FARM & WELL NO Donald Stemple #J-978
DIST. & COUNTY Glade/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 Strength	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input 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:

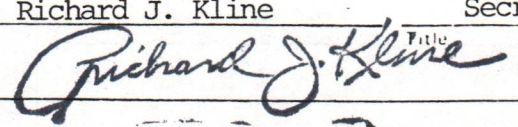
SIGNED *Donald Stemple*
DATE 7-5-85

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.

Thomas B. ...
Administrator-Oil & Gas Division

July 18, 1985
DATE

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-2082			
2.0 Type of determination being sought (Use the codes found on the front of this form.)	103 <small>Section of NGPA</small>	N/A <small>Category Code</small>		
3.0 Depth of the deepest completion location. (Only needed if sections 103 or 107 in 2.0 above.)	4877 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>City State Zip Code</small>	
5.0 Location of this well. (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Glade <small>Field Name</small>		WV <small>State</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-978			
(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 Seller 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.)	2.917	.278	---	3.20
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)	2.917	.278	---	3.20
9.0 Person responsible for this application	Richard J. Kline Secretary			
<small>Agency Use Only</small>	<small>Name</small>			
<small>Date Received by Juris. Agency</small>	 <small>Signature</small>			
AUG 14 1984	8-10-84 <small>Date application is Completed</small>			
<small>Date received by FERC</small>	(412) 349-6800 <small>Phone Number</small>			

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

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

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

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

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

Specific Instructions for Item 2.0, Type of Determination:

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

Other Purchasers/Contracts:

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

Remarks:

[Handwritten signature]

AUG 1 1981

LICENSANTS: _____
 OPERATOR: J & J Enterprises, Inc.
 PURCHASER: Tennessee Gas Pipeline
 OTHER: _____

DATE: AUG 31 1984

BUYER-SELLER CO

Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
840814-103-001 = 2082
 Use Above File Number on all Communications
 Relating to Determination of this Well

500' Radius
 Oct 2083
 Qualifies
 ALB

APPROVED

OCT - 3 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

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

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

Date August 10 1984
Operator's Well No. J-978
API Well No. 47 - State 001 - County Barbour - Permit 2082

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
MGA 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 1733

Watershed Sugar Creek

Dist. Glade County Barbour Quad Westover

Gas Purchase Contract No. _____

Meter Chart Code _____

Date of Contract _____

* * * * *

Date surface drilling was begun: June 25th, 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 Pf=Pwe XGLS
 $t=60 + (0.0075 \times 5405) + 459.7 = 560$ $X=53.35 \times 560$ $\frac{1}{29889} = 0.000033$ $Pf=1720 \times 2.72^{(0.000033)}$
 $(4751) (0.9) = 1720 \times 2.72^{0.09} = 1720 \times 1.1$

AFFIDAVIT

Pf= 1892 psi

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 10 day of Aug, 1984, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 10 day of Aug, 1984. My ~~XXXXXX~~ expires on the 23 day of January, 1988.
Commission

[NOTARIAL SEAL]

Vicki L. Vanderberg
Notary Public

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



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

Date August 10, 1984
Operator's Well No. J-978
API Well No. 47 - 001-2082
State County P
Previous File No. (If Applicable)

STATE APPLICATION FOR WELL CERTIFICATION

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

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

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

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

FERC Seller Code 009480 FERC Buyer Code _____

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

Richard J. Kline Secretary
Name (Print) Title
Richard J. Kline
Signature
P. O. Box 697
Street or P. O. Box
Indiana PA 15701
City State (Zip Code)
412 349-6800
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

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

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

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

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

This Application is assigned File No. _____

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

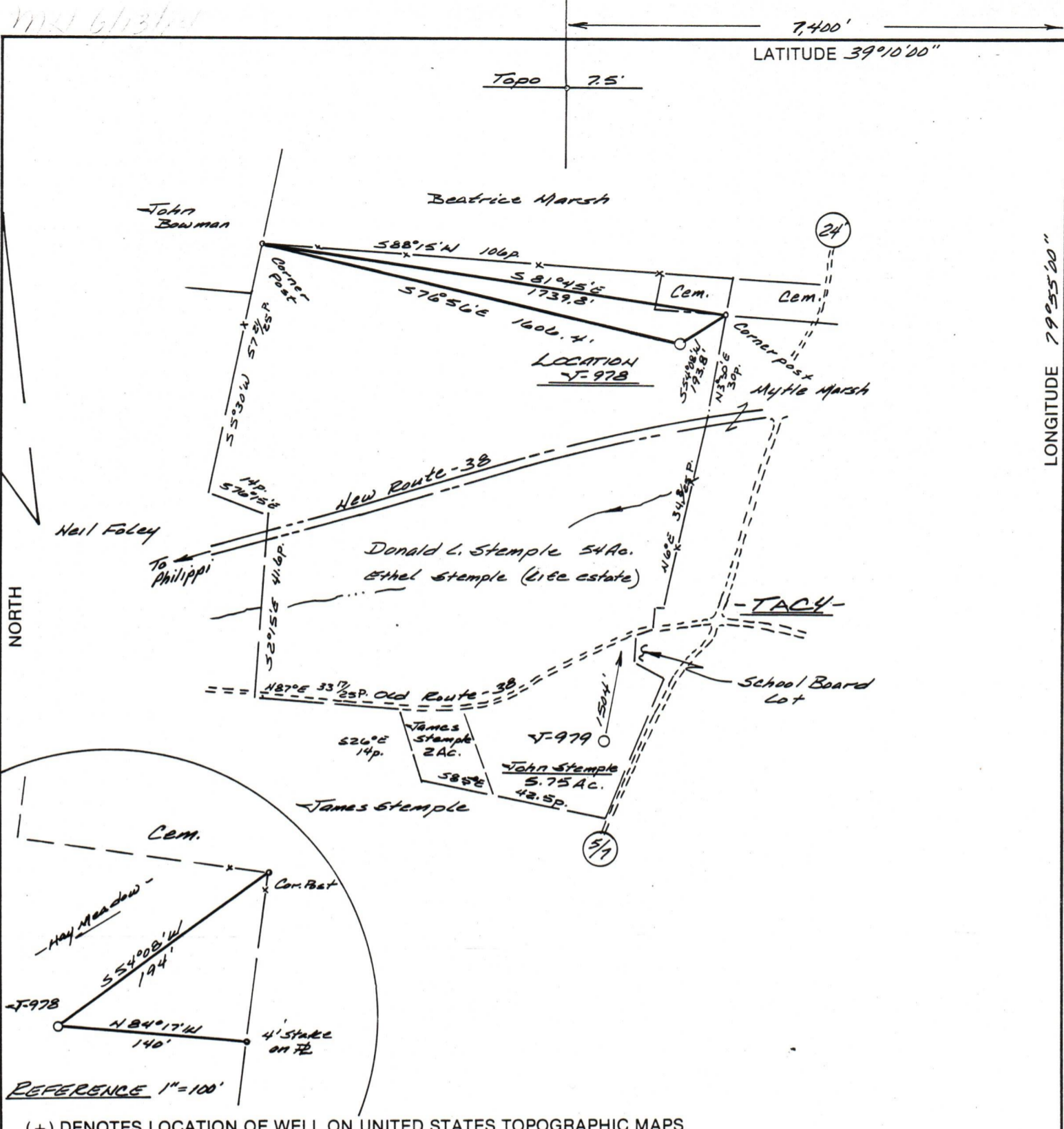
Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

AUG 14 1984

Date received by _____
Jurisdictional Agency

Director
By [Signature]
Title



FILE NO. 346.01
 DRAWING NO. 84-48
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200'
 PROVEN SOURCE OF ELEVATION BM-1693'
at Tacy.

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. Reddecliff
 R.P.E. _____ L.L.S. 555
Buckhannon

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 5 June, 19 84
 OPERATOR'S WELL NO. V-978
 API WELL NO. 47-001-2082

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

LOCATION: ELEVATION 1733' WATER SHED Sugar Creek
 DISTRICT Glade COUNTY Barbour
 QUADRANGLE Nestorville

SURFACE OWNER Donald L. Stemple & Ethel Stemple ACREAGE 54
 OIL & GAS ROYALTY OWNER Donald L. Stemple & Ethel Stemple LEASE ACREAGE 68.25
 LEASE NO. _____

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

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION Haverly ESTIMATED DEPTH 5800'
 WELL OPERATOR STET ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, W.V. 26201 Buckhannon, W.V. 26201

FORM IV-6 (8-78)
 H.T. HALL

COUNTY NAME PERMIT