



1) Date: 30 May, 1984
 2) Operator's Well No. J-982
 3) API Well No. 47 001 2097
 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: 1855' Watershed: Bonica Run (MT 24B)
 District: Philippi 5 County: Barbour Quadrangle: Nestorville 504
- 6) WELL OPERATOR J&J ENTERPRISES, INC. 24150 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 Russell Beau Name SW Jack Drilling, Co.
 Address General Delivery Address PO Box 48
Ellamore, WV 26267 866-4608 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / 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 tratra depths: Fresh, 65' feet; salt, 0 feet.
- 14) Approximate coal seam depths: 125' to 420' Is coal being mined in the area? Yes
- 15) CASING AND TUBING PROGRAM

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 JUN 13 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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	Kinds
Fresh water	8 5/8	ERW	23	X		1000	1000	to surface	<u>NEAT</u>
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								<u>or as req. by rule 15.01</u>	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2097 Date June 29 1984

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 29, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>[Signature]</u>	Plat: <u>MT</u>	Casing <u>MT</u>	Fee <u>171.7</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

629



OFFICE USE ONLY

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

Form fields for permit details including Well No., Location, Well Operator, and Proposed Well Work.

RECEIVED stamp

DEPT. OF MINES stamp

Table with columns for casing or tubing type, depth, and other technical 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 with columns for Date and Date(s) for tracking permit events like application received and well work started.

OTHER INSPECTIONS

Form for recording other inspections with Reason fields and a signature line.

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
Robert & Ludie Queen	CNG	Allof 1/8-100%	50	251
CNG Assignment	J&J Enterprises, Inc.		100	592

1) Date: 30 May, 1984
2) Operator's Well No. J-982
3) API Well No. 47 - 001 - 2097
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 John O. Darnell, Sr.
Address PO Box 202
Belington, WV 26250
(ii) Name _____
Address _____
(iii) Name _____
Address _____

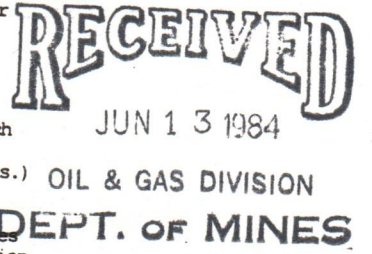
5(i) COAL OPERATOR _____
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name R. K. Bogart, Jr.
Address c/o Badger Coal Co.
Depot St.
Name Philippi, WV 26416
Address _____
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name Badger Coal Co.
Address Depot St.
Philippi, WV 26416

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 Reddecliff this 7 day of June, 1984. My commission expires 11-18, 1984.
Edward J. Sumnerfield
Notary Public, Barber County,
State of W. Virginia

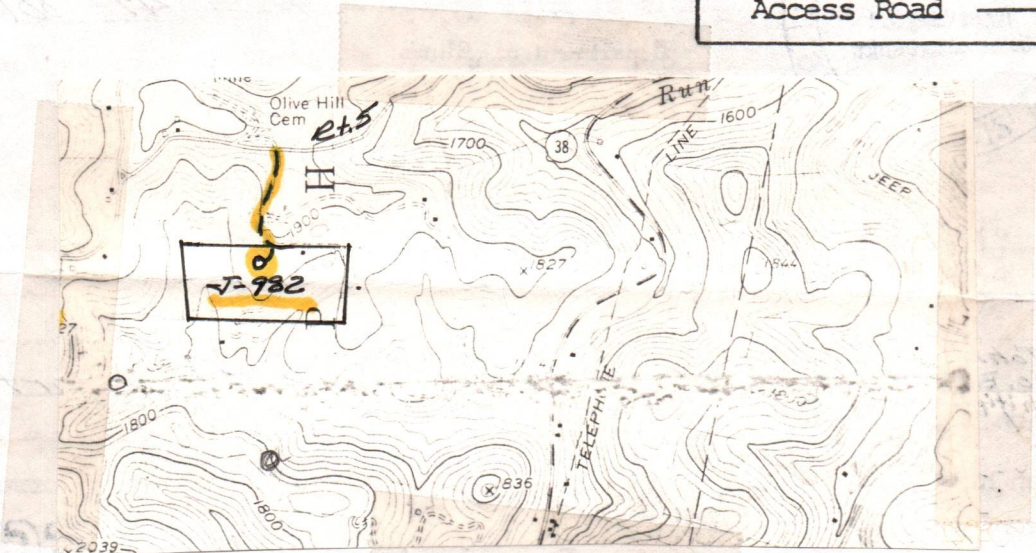
WELL OPERATOR J&J ENTERPRISES, INC.
By Richard H. Reddecliff
Its Designated Agent
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE NESTORVILLE

LEGEND

Well Site ⊕

Access Road ———



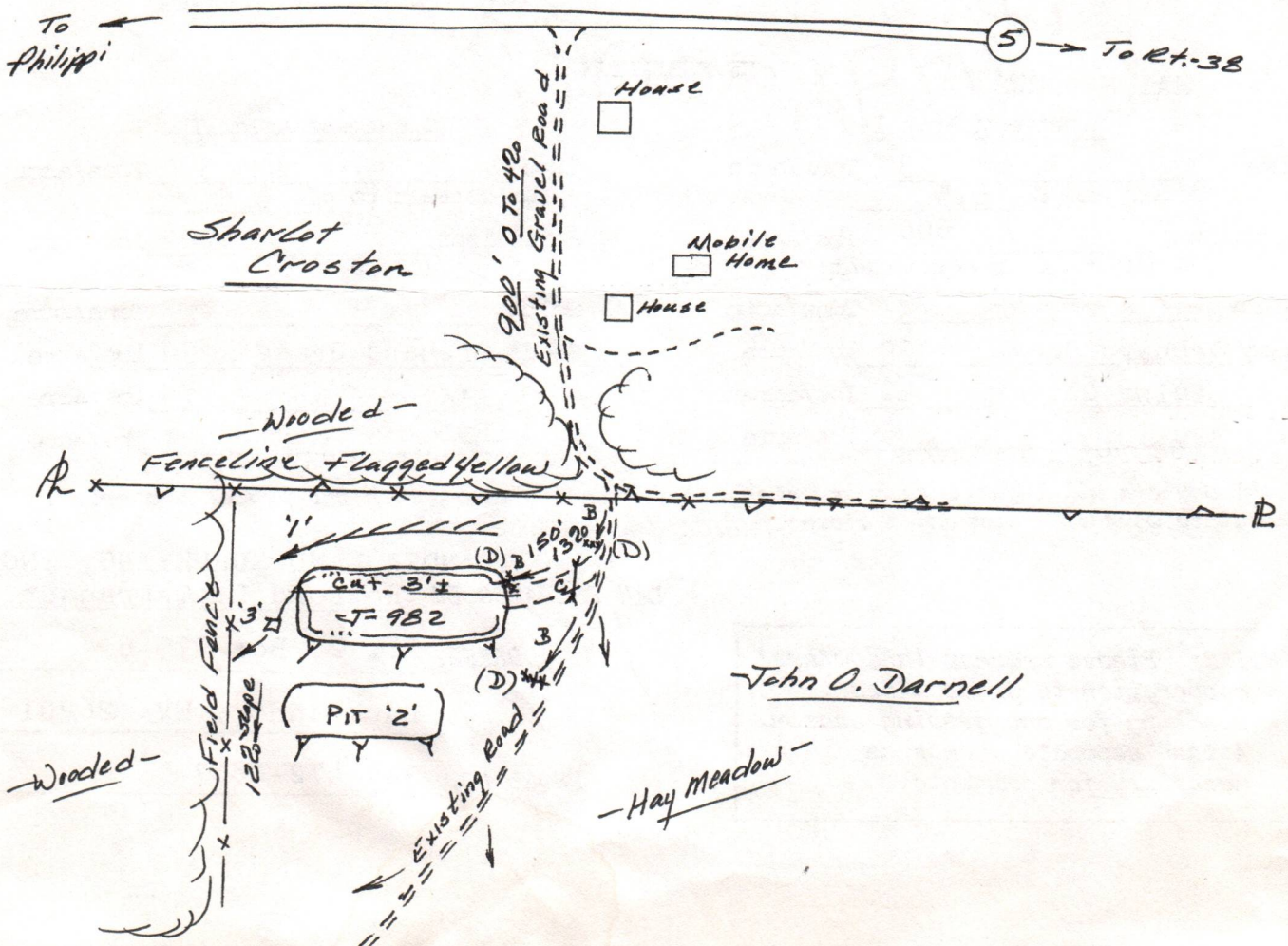
WELL SITE PLAN

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

LEGEND

Property boundary	———▲———	(D) $\frac{x}{x}$ - Water Velocity Barrier	
Road	== == == ==	Diversion	///////
Existing fence	— x — x —	Spring	○ →
Planned fence	— / — / —	Wet spot	♂
Stream	~ ~ ~ ~ ~	Building	■
Open ditch	———>>>>———>>>>———>>>>	Drain pipe	○ → ○ → ○ →
		Waterway	⇄ ⇄ ⇄ ⇄

- Topsoil 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.



IV-9
(Rev 8-81)



DATE 30 May '84
WELL NO. T-982
API NO. 42-001-2097

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
LANDOWNER John O. Darnell, Sr.
P.O. Box 202
Belington, W.V. 26250

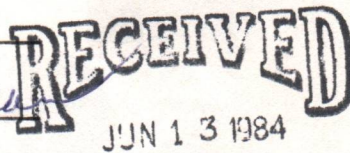
DESIGNATED AGENT Richard Reddicliff
Address PO Box 48
Buckhannon, WV 26201
Telephone 304-472-9404
SOIL CONS. DISTRICT Tygart Valley

Revegetation to be carried out by J&J Enterprises, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections
and additions become a part of this plan: 6/3/84

(Date)

Jean Freeman
(SCD Agent)



ACCESS ROAD

LOCATION OIL & GAS DIVISION

Structure Culverts (A)
Spacing As shown and as needed.
(15" min. when leaving State road.)
Page Ref. Manual 2-7

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

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

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

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

Structure Sediment trap (3)
Material Soil
Page Ref. Manual -----

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

HAY MEADOWS

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Rye 5 lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch 2 Tons/acre
Seed* Orchard Grass 30 lbs/acre
Lidina Clover 10 lbs/acre
Rye 5 lbs/acre

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

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

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

PHONE NO. 304-472-0817

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

CHARLESTON, WEST VIRGINIA

INTER - OFFICE MEMORANDUM

TO- Russell Beall (501)

DATE- July 3, 1984

J and J Enterprises

FROM- Lois Simpkins

SUBJECT- 47-001-2097 - Well #J-982

Russ:

Gary Miller with Gary Dozer, Inc., called (1:00 PM) today and said he was unable to get up with you to tell you they were moving a dozer in on the subject location today.

He is to continue to ^{try to} reach you on the phone.

Attachment - copy of location plat

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

P 534 414 114

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse) **5-982**

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

Sent to <i>Shader Coal Co.</i>	
Street and No. <i>Depot St.</i>	
P.O., State and ZIP Code <i>Phillipi, WV 26416</i>	
Postage	\$ <i>37</i>
Certified Fee	<i>75</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	<i>60</i>
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>172</i>
Postmark or Date	<i>1984</i>

P 534 414 115

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse) **5-982**

★ U.S.G.P.O. 1983-403-517

orm 3800, Feb. 1982

Sent to <i>John O. Darnell, Sr.</i>	
Street and No. <i>P.O. Box 202</i>	
P.O., State and ZIP Code <i>Beington, WV 26030</i>	
Postage	\$ <i>37</i>
Certified Fee	<i>75</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	<i>60</i>
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>172</i>
Postmark or Date	<i>1984</i>

REXFORD L. OSLIN
P. O. BOX 676
BUCKHANNON, WV 26201

2336



Moved, but no address
 Moved, not forwardable
 Address unknown

RETURN RECEIPT
TESTED

CERTIFIED MAIL
P 534 414 115



CLAIM CHECK NO. 847057
 HOLD
DATE JUN 13 1984
1ST NOTICE
2ND NOTICE
RETURN
Detached from PS Form 3849-A Oct. 1980

Maigst
Copies of material for surface crew J-982

Shuchas SA

RECEIVED
JUN 29 1984

OIL & GAS DIVISION
DEPT. OF MINES

PS Form 3811, July 1983

● **SENDER: Complete items 1, 2, 3 and 4.**
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

- 1. Show to whom, date and address of delivery.
- 2. Restricted Delivery. J-982

3. Article Addressed to:
John O. Darnell, Sr.
P.O. Box 202
Belington, WV 26250

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P534414115

Always obtain signature of addressee or agent and **DATE DELIVERED.**

DOMESTIC RETURN RECEIPT

- 5. Signature - Addressee
X
- 6. Signature - Agent
X
- 7. Date of Delivery
- 8. Addressee's Address (ONLY if requested and fee paid)

RECEIVED

JUN 29 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

Haverty: Perforations: 5218-22(16 holes) Fracturing: 200 sks. 20/40 sand:368 Bbls.fluid.
 3rd Elk: Perforations:4868-70 (9 holes) Fracturing: 200 sks. 20/40 sand:500 gal. acid:400 Bbls fluid.
 1st and 2nd ELK: Perforations: 4598-4405 (6 holes) 4642-46 (8 holes) Fracturing: 400 sks. 20/40 sand: 500 gal. acid: 540 Bbls. fluid.

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

$$t=60 + (0.0075 \times 5365) + 459.7 = 560 \quad X=53.35 \times 560 = \frac{1}{29876} = 0.00033 \quad P_f=2050 \times 2.72^{(0.000033)}$$

$$(0.650)(4814)(0.9) = 2050 \times 2.72^{0.09} = 2050 \times 1.09$$

$P_f=2235$ psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	5	
Shale & sand			5	50	½" stream @ 110'
White sand			50	80	
Coal			80	83	1" stream @ 885'
Sand			83	100	
Coal			100	108	Gas ck @ 1398 No show
Sand & shale			108	225	
Shale & sand			225	335	
Sand & shale			335	490	Gas ck @ 2429 NO show
Coal			490	495	
Sand, shale & red rock			495	855	Gas ck @ 3023 No show
Sand & shale			855	1015	
Shale & red rock			1015	1125	Gas ck @ 5010 2/10-2" w/water 94,000 cu.ft.
Little Lime			1125	1140	
Sand & lime			1140	1168	
Big Lime			1168	1310	
Sand & shale			1310	1410	
Shale			1410	2965	
Balltown			2965	3020	
Sand & shale			3020	4405	
1st Elk			4405	4598	
Sand & shale			4598	4642	
2nd ELK			4642	4646	
Sand & shale			4646	4868	
3rd ELK			4868	4870	
Sand & shale			4870	5218	
Haverty			5218	5222	
Shale			5222	5606	
				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."

IV-35
(Rev 8-81)

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AUG - 7 1984



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

Date August 6, 1984
Operator's Well No. J-982
Farm Helen Croston
API No 47 - 001 - 2097

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: 1855 Watershed Bonica Run
District: Philippi 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 John O. Darnall

ADDRESS P.O. Box 202, Belington, WV 26250

MINERAL RIGHTS OWNER Robert Queen

ADDRESS Unknown

OIL AND GAS INSPECTOR FOR THIS WORK Russell

Beall ADDRESS P.O. Box 160, Philippi, WV

PERMIT ISSUED 6/29/84

DRILLING COMMENCED 7/9/84

DRILLING COMPLETED 7/14/84

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"	19.50	19.50	0
9 5/8			
8 5/8	1006.05	1006.50	265 sks.
7			
5 1/2			
4 1/2	5365.38	5365.38	300 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5218-22 feet

Depth of completed well 5606 feet Rotary x / Cable Tools

Water strata depth: Fresh 110,885 feet; Salt 0 feet

Coal seam depths: 80-83,100-108,490-95 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5218-22 feet

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

Combined Final open flow 984 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 2050 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)

Second producing formation Elks Pay zone depth 4868-70 4642-4405 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)

845 2097

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

RECEIVED

JUL 10 1984

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

Permit No. 001-20917

Oil or Gas Well _____
(KIND)

Company <u>J4J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>DARNELL</u>	16			Kind of Packer _____
Well No. <u># 982</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
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: Location Finished

7/6/84
DATE

RC BRAIL
DISTRICT WELL INSPECTOR

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

RECEIVED
JUL 11 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2097

Oil or Gas Well _____
(KIND)

Company J & J

Address _____

Farm DARNELL

Well No. J-892

District _____ County 001

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

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

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

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

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

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names J.W. JACIC Rig #23

Remarks: Rig on

7/9/84
DATE

R.G. Beane
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

JUL 12 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2097

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>DARNELL</u>	13			
Well No. <u>J-982</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 #23

Remarks: Deg @ 500'

7/10/84
DATE

RG Reese (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

JUL 16 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2097

Oil or Gas Well _____
(KIND)

Company <u>J+J</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>DARNELL</u>	16			Kind of Packer _____
Well No. <u>#1</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+J Rig #23

Remarks: Dug UNDER 8 5/8 — TAN-1006' 7 8/8 - 7-11-84

7/12/84
DATE

R.G. Beale-15017
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

JUL 17 1984

INSPECTOR'S WELL REPORT

Permit No. 001-2097

OIL & GAS DIVISION
DEPT. OF MINES
(KIND)

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

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

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

JACIE #23

Remarks:

Deg Below 8 5/8 @ - 4600 -

7/13/84
DATE

R.G. Beall (5011)
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. 001-2097

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>DARNELL</u>	13			
Well No. <u>J-982</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 G. Williams Reclamation

Remarks: Seeding & grading appears to be good at this point.

8/13/84

DATE

R. G. Benni (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

INSPECTOR'S WELL REPORT

Permit No. 001-2097

Oil or Gas Well _____
(KIND)

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

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OCT 9 1984
OIL & GAS DIVISION
DEPT. OF MINES

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
NAME OF SERVICE COMPANY _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Issued fine - growth could be stronger - Api 110 - 011.

10/4/84
DATE

RG Beace
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

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DEC 3 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2197

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>CONTINENTAL RESERVE</u>	Size			Kind of Packer
Address <u>P.O. BOX 117 BRIDGEPORT W.V.</u>	16			
Farm <u>BURRUSS TIMBER.</u>	13			Size of
Well No. <u>2 SUDER.</u>	10			Depth set
District <u>VALLEY</u> County <u>BARBOUR.</u>	8 1/4			Perf. top
Drilling commenced _____	6 5/8			Perf. bottom
Drilling completed _____ Total depth _____	5 3/16			Perf. top
Date shot _____ Depth of shot _____	3			Perf. bottom
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. bottom
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Rock pressure _____ lbs. _____ hrs.	NAME OF SERVICE COMPANY _____			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

GARY DOZER SERU BUILDING LOC.

11-28-84

DATE

DISTRICT WELL INSPECTOR

RECEIVED

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 _____

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

Drillers' Names _____

Remarks: _____

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

DISTRICT WELL INSPECTOR



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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 12, 1984

RECEIVED
OCT 9 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

PERMIT NO 001-2097
FARM & WELL NO John O. Darnall #J-982
DIST. & COUNTY Philippi/Barbour

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

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

SIGNED *DeBeau*
DATE 10/4/84

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

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

December 17, 1984
DATE

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47-001-2097				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code			
3.0 Depth of the deepest completion location: (Only include if sections 103 or 107 in 2.0 above.)	_____ feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	J & J Enterprises, Inc. Name		009480 Seller Code		
	P.O. Box 697 Street				
	Indiana, City	PA State	15701 Zip Code		
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Philippi Field Name		WV State		
	Barbour County				
(b) For OCS wells:	N/A Area Name		_____ Block Number		
	Date of Lease: Mo. Day Yr. _____ OCS Lease Number _____				
(c) Name and identification number of this well: (35 letters and digits maximum.)	J-982				
(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 Name		_____ Seller Code		
(b) Date of the contract:	Mo. Day Yr. _____				
(c) Estimated annual production:	_____ MMcf.				
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price (As of filing date. Complete to 3 decimal places.)		2.917	.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 Name				
Agency Use Only	Secretary Title				
Date Received by Juris. Agency	<i>Richard J. Kline</i> Signature				
AUG 14 1984	8-10-84 Date application is Completed		(412) 349-6800 Phone Number		
Date received by FERC					

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]

APR 1 1981

IPANTS:

DATE: AUG 31 1984

BUYER-SELLER CO

OPERATOR:

J & J Enterprises, Inc.

PURCHASER:

Tennessee Gas Pipeline

R:

1500' Radius

1929

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

840814-103-001: 2097

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

APPROVED

OCT -3 1984

Qualifies
ATB

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? _____
 10. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? _____ Affidavit Signed _____
 - Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
 11. Date commenced: _____ Date completed _____ Deepened _____
 12. Production Depth: _____
 13. Production Formation: _____
 14. Final Open Flow: _____
 15. After Frac. R. P. _____
 16. Other Gas Tests: _____
 17. Avg. Daily Gas from Annual Production: _____
 18. Avg. Daily Gas from 90-day ending 1/1-1/30 days _____
 19. Line Pressure: _____
 20. Oil Production: _____ Free Completion Period: _____
 21. Does lease agreement indicate enhanced recovery being conducted? _____
 22. Is affidavit signed? _____ Notarized? _____
 23. Official well record with the Department contain the submitted information? _____
 24. Does computer program contain? _____
 25. Information forwarded to _____ by whom? _____

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

Date August 10, 1984
Operator's Well No. J-982
API Well No. 47 - 001 - 2097
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 1855
Watershed Bonica Run
District Philippi County Barbour Quad Pestoville
Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

* * * * *

Date surface drilling was begun: July 9th, 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
 $t=60 + (0.0075 \times 5365) + 459.7 = 560$ $X=53.35 \times 560 = 29876$ $= 0.-00033$ $Pf=2050 \times 2.72$ (0.0000)
 $(0.650)(4814)(0.9) = 2050 \times 2.72$ $0.09 = 2050 \times 1.09$

AFFIDAVIT
Pf=2235 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 COUNTY, INDIANA COUNTY
MY COMMISSION EXPIRES JAN. 23, 1988
Member, Pennsylvania Association of Notaries

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

Date August 10, 1984
Operator's Well No. J-982
API Well No. 47 - 001-2097
State County
Previous File No. (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR J & J Enterprises, Inc.

DESIGNATED AGENT James R. Willett

ADDRESS Box 697
Indiana, PA 15701

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 Phone Number
Code

(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 1978, (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

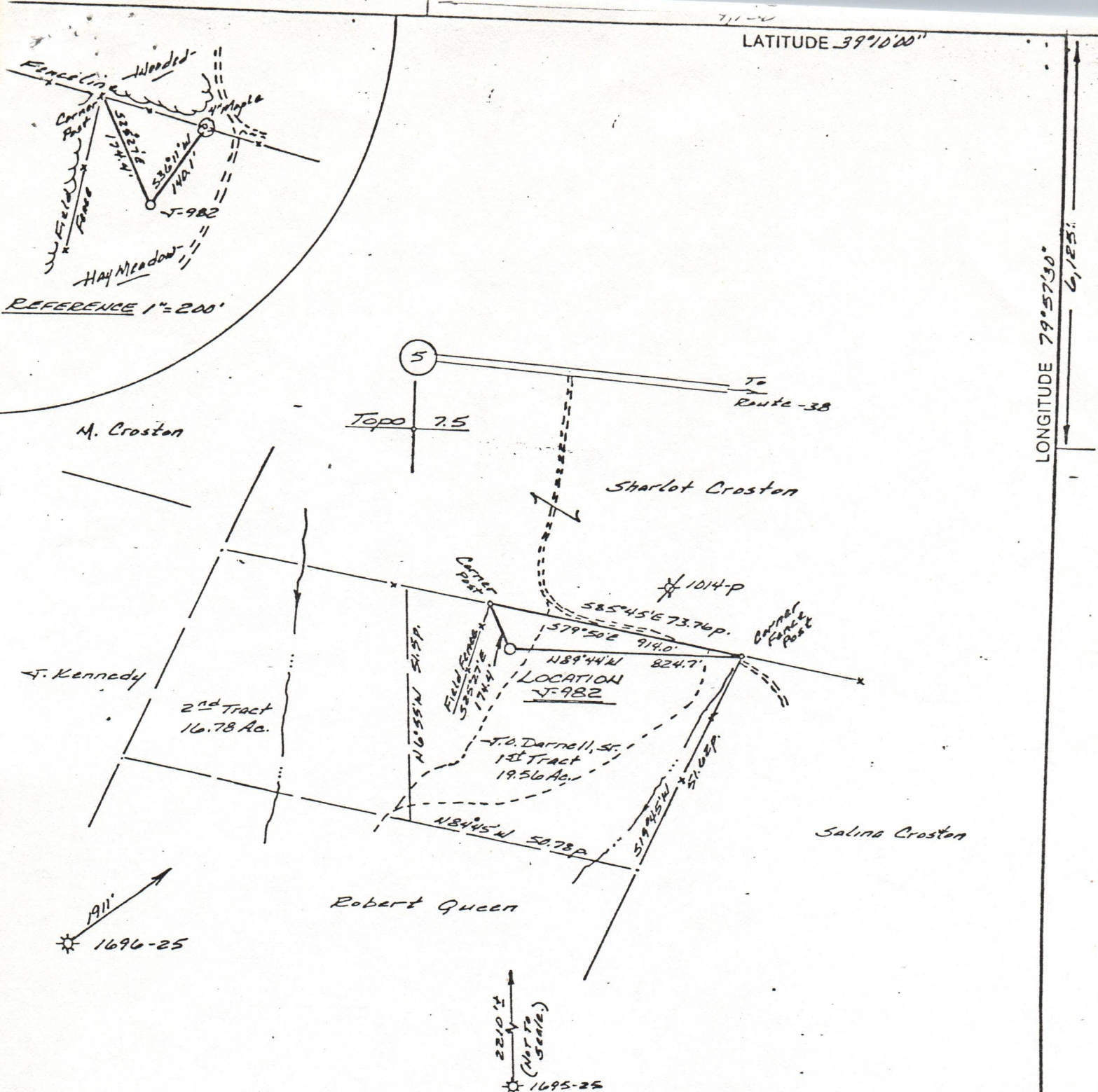
AUG 14 1984

Date received by
Jurisdictional Agency

By [Signature] Director
Title

LATITUDE 39°10'00"

LONGITUDE 79°57'30"



★ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

CASE NO. 346.01
 DRAWING NO. 84-52
 SCALE 1" = 500'
 MINIMUM DEGREE OF
 ACCURACY 1 in 2500
 PROVEN SOURCE OF
 ELEVATION Spot Elev. 2027
West of the 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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF MINES.
 (SIGNED) Rayford J. Costander

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 30 May, 19 84
 OPERATOR'S WELL NO. J-982
 API WELL NO.

47 - 001 - _____
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1855' WATER SHED Bonica Run
 DISTRICT Philippi COUNTY Barbour
 QUADRANGLE Nestorville
 SURFACE OWNER John O. Darnell, Sr. ACREAGE 36
 OIL & GAS ROYALTY OWNER Robert & Ludie Queen LEASE ACREAGE 36
 LEASE NO. JT-1645

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 5300'
 WELL OPERATOR JET ENTERPRISES, INC. DESIGNATED AGENT RICHARD PEDRECLIFF
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

COUNTY NAME

PERMIT