



1) Date: August 18, 1983  
 2) Operator's Well No. B-549  
 3) API Well No. 47 - 033 - 2951  
 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    / Underground storage    / Deep    / Shallow X /)
- 5) LOCATION: Elevation: 1052' Watershed: Anmoore Run  
 District: Clark County: Harrison Quadrangle: Clarksburg 7 1/2 min.
- 6) WELL OPERATOR J & J Enterprises, Inc.  
c/o Berry Energy Consultants  
 Address P. O. Box 5  
Clarksburg, WV 26301
- 7) DESIGNATED AGENT W. B. Berry  
 Address P. O. Box 5  
Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Stephen Casey  
 Address Rt. 2, Box 232-D  
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:  
 Name S. W. Jack Drilling Company  
 Address P. O. Box 48  
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper    / Redrill    / Stimulate     
 Plug off old formation    / Perforate new formation     
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, BENSON  
 12) Estimated depth of completed well, 4425 feet  
 13) Approximate strata depths: Fresh, 174 feet; salt, None feet.  
 14) Approximate coal seam depths: 238' - 242' Is coal being mined in the area? Yes    / No XX

**RECEIVED**  
 NOV 18 1983  
 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	J-55	42	X		30'	Pulled		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	24	X		900'	900'	To Surface	
Production	4 1/2	API	10.5	X		N/A	4390	Fill up pending	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-033-2951 Date November 22, 1983

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 November 22, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>  </u>	Plat: <u>  </u>	Casing: <u>  </u>	Fee: <u>4486</u>
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**BLANKET BOND**

*[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) LOCATION: \_\_\_\_\_

2) WELL OPERATOR: \_\_\_\_\_

3) DESIGNATED AGENT: \_\_\_\_\_

4) DRILLING CONTRACTOR: \_\_\_\_\_

5) PROPOSED WELL WORK: \_\_\_\_\_

6) APPROXIMATE SOIL SAMPLING DEPTH: \_\_\_\_\_

7) APPROXIMATE FRESH DEPTH: \_\_\_\_\_

8) ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_

9) OTHER PHYSICAL CHANGES IN WELL (SPECIFY): \_\_\_\_\_

10) PERFORM NEW FORMATION: \_\_\_\_\_

11) GEOLOGICAL TARGET FORMATION: \_\_\_\_\_

12) IS COST BEING INCURRED IN THE AREA? Yes/No: \_\_\_\_\_

**RECEIVED**  
 NOV 13 1983  
 OIL & GAS DIVISION  
 DEPT. OF MINES

OFFICE USE ONLY

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

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

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

_____	_____	_____	_____
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1) Date: August 18, 1983  
 2) Operator's Well No. B-549  
 3) API Well No. 47  
 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 \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X \_\_\_\_\_)
- 5) LOCATION: Elevation: 1052' Watershed: Amooore Run  
 District: Clark County: Harrison Quadrangle: Clarksburg 7 1/2 min.
- 6) WELL OPERATOR J & J Enterprises, Inc. 7) DESIGNATED AGENT W. B. Berry  
c/o Berry Energy Consultants  
 Address P. O. Box 5 Address P. O. Box 5  
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Stephen Casey Name S. W. Jack Drilling Company  
 Address P. O. Box 232-D Address P. O. Box 48  
Lane Lew, WV 26378 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, BENSON  
 12) Estimated depth of completed well, 4425 feet  
 13) Approximate trata depths: Fresh, 174 feet; salt, None feet.  
 14) Approximate coal seam depths: 238' - 242' Is coal being mined in the area? Yes \_\_\_\_\_ / No XX \_\_\_\_\_

**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		Kinds	Sizes
Conductor	<u>1 3/4</u>	<u>J-55</u>	<u>42</u>	<u>X</u>		<u>30'</u>	<u>Pulled</u>			
Fresh water										
Coal										
Intermediate	<u>5 5/8</u>	<u>J-55</u>	<u>24</u>	<u>X</u>		<u>900'</u>	<u>900'</u>	<u>To Surface</u>		
Production	<u>4 1/2</u>	<u>API</u>	<u>10.5</u>	<u>X</u>		<u>N/A</u>	<u>4390</u>	<u>fill up pend</u>	<u>Depths set</u>	
Tubing										
Liners									<u>Perforations:</u>	
									<u>Top</u>	<u>Bottom</u>

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 \_\_\_\_\_

Josephine Casto Date: \_\_\_\_\_  
 (Signature)  
Andrew Casto Date: 10/19/83  
 (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.



1) Date: August 18, 19 83  
 2) Operator's Well No. B-349  
 3) API Well No. 47  
 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 \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 1052' Watershed: Annoore Run  
 District: Clark County: Harrison Quadrangle: Clarksburg 7 1/2 min.
- 6) WELL OPERATOR J & J Enterprises, Inc. 7) DESIGNATED AGENT W. B. Berry  
e/o Berry energy consultants  
 Address P. O. Box 5 Address P. O. Box 5  
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- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Stephen Casey Name S. W. Jack Drilling Company  
 Address Rt. 2, Box 232-D Address P. O. Box 48  
Jane Lew, WV 26378 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_ /  
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15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
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Fresh water										
Coal										Sizes
Intermediate	<u>8 5/8</u>	<u>J-55</u>	<u>24</u>	<u>X</u>		<u>900'</u>	<u>900'</u>	<u>To Surface</u>		
Production	<u>4 1/2</u>	<u>API</u>	<u>10.5</u>	<u>X</u>		<u>N/A</u>	<u>4390</u>	<u>Fill up per</u>		Depths set
Tubing										
Liners										Perforations: Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By Josephine Costo  
Andrew Costo 10/19/83

Its \_\_\_\_\_

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>
July 21, 1983	Josephine Casto and Andrew Casto, her husband	A. L. McQuaid	1/8	1129	236
Assignment:					
August 12, 1983	A. L. McQuaid	David B. Berry		1132	214
August 13, 1983	David B. Berry	Berry Energy Consultants		1132	218

1) Date: October 17, 1983  
2) Operator's Well No. B-549  
3) API Well No. 47-033-2951  
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 Josephine Casto  
Address Box 96  
Anmoore, WV 26323  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR Non-Operated  
Address \_\_\_\_\_  
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Josephine Casto  
Address Box 96  
Anmoore, WV 26323  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

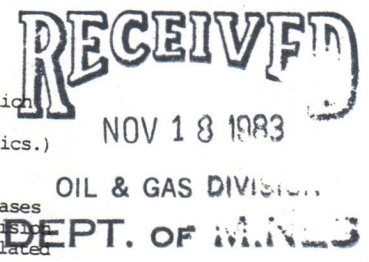
Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No XX

If the answer 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

W. B. Berry  
this 17th day of October, 1983.  
My commission expires 4-22, 1991.

Mary Ann Cowger  
Notary Public, Harrison County,  
State of West Virginia

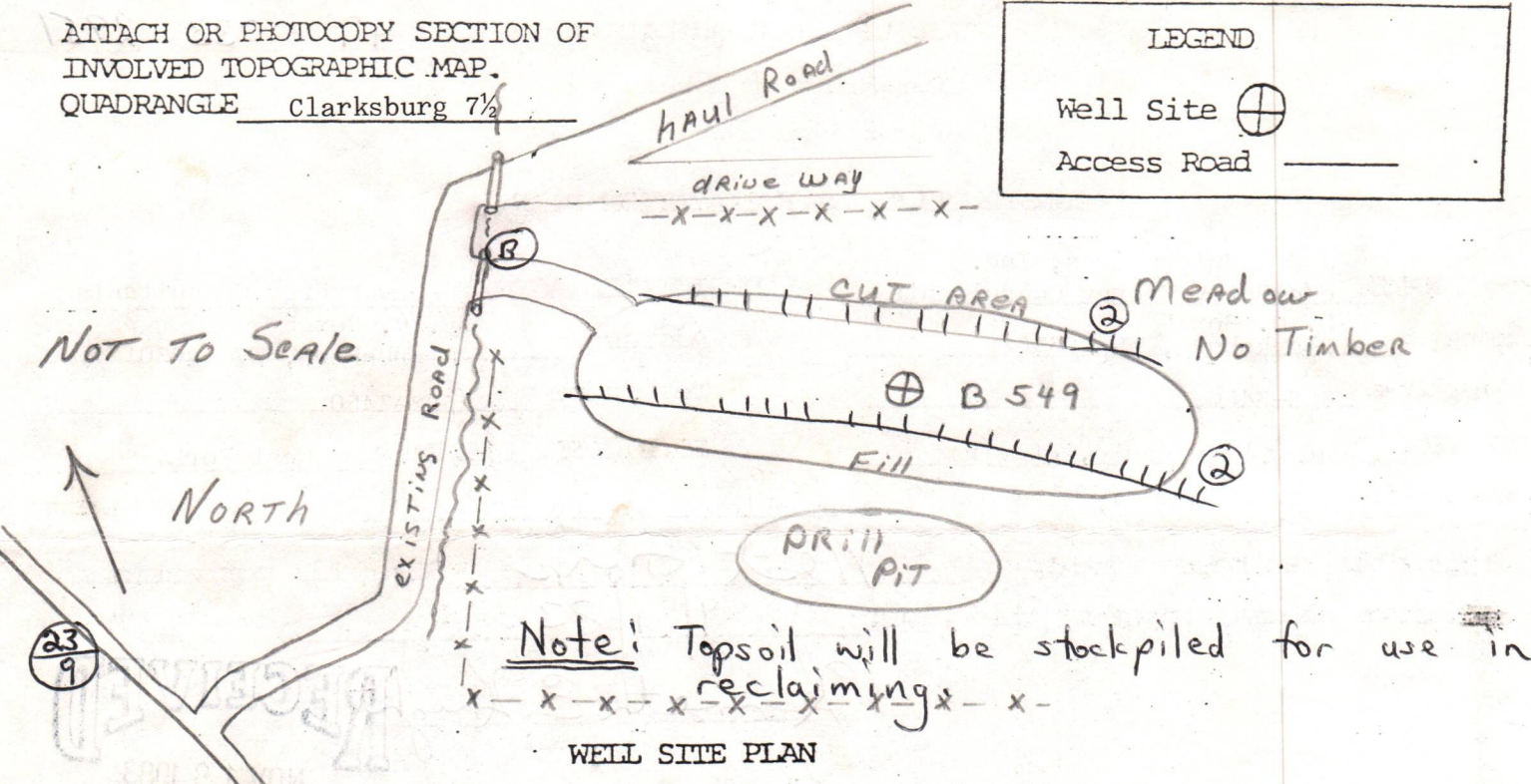
WELL OPERATOR Berry Energy Consultants & Mgrs'., Inc.  
By W B Berry  
Its President  
Address P. O. Box 5  
Clarksburg, WV 26301  
Telephone 622-3450

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Clarksburg 7 1/2

**LEGEND**

Well Site ⊕

Access Road ———

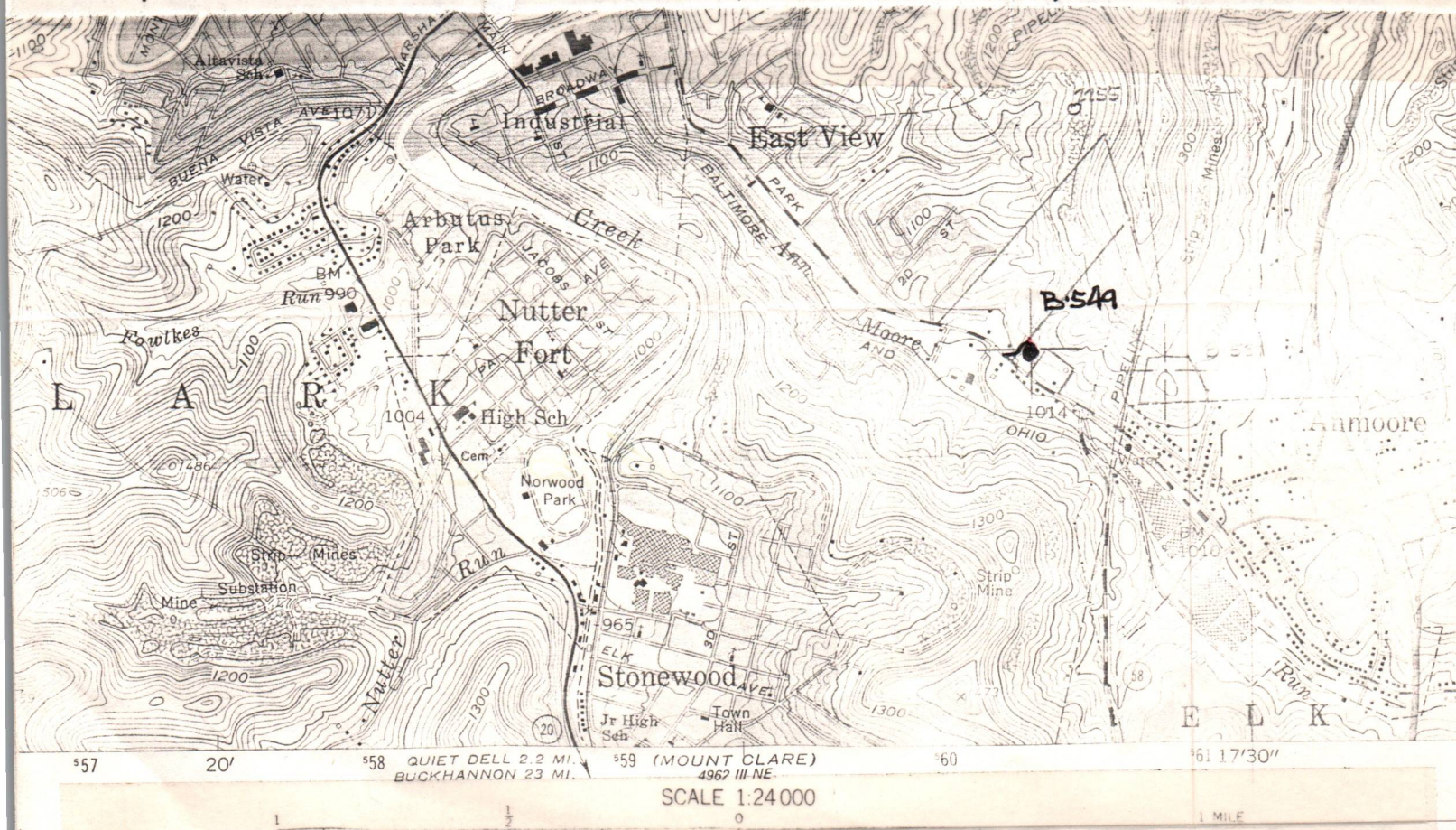


Sketch to include well location, existing access road, roads to be constructed, wellsite drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

**LEGEND**

Property boundary	———▲———	Diversion	———/———
Road	== == == ==	Spring	○→
Existing fence	—x—x—x—x—	Wet spot	⊕
Planned fence	—/—/—/—/—	Building	■
Stream	~ ~ ~ ~ ~	Drain pipe	○→○→○→
Open ditch	—>—>—>—>—>	Waterway	←=→=→=

Location to be cut on 2:1 slope, very little diversion necessary. Ditch and road to be maintained after construction is complete.







DATE August 23, 1983

WELL NO. B-549

State of West Virginia API NO. 47 - 033 - 2951

Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc.  
c/o Berry Energy Consultants  
Address P. O. Box 5  
Clarksburg, WV 26301  
Telephone 622-3450

DESIGNATED AGENT Berry Energy Consultants  
Address P. O. Box 5  
Clarksburg, WV 26301  
Telephone 622-3450

LANDOWNER Josephine Casto, et vir

SOIL CONS. DISTRICT West Fork

Revegetation to be carried out by reputable contractor (Agent)

This plan has been reviewed by West Fork SCD. All corrections and additions become a part of this plan:

9/1/83  
(Date)

Kenneth E. Knight  
(SCD Agent)

RECEIVED  
NOV 13 1983

ACCESS ROAD

LOCATION  
OIL & GAS DIVISION

Structure Open Cross Drains (A)

Structure Location (1) or (2) slope (1)

Spacing 135' for less than 5% grade

Material Built in field. No timber

Page Ref. Manual 2-4

Page Ref. Manual \_\_\_\_\_

Structure Culvert (18" minimum I(B))

Structure Diversion Ditch (2)

Spacing according to Oil & Gas Manual

Material Earthen

Page Ref. Manual 2-7

Page Ref. Manual 2-12

Structure \_\_\_\_\_ (C)

Structure \_\_\_\_\_ (3)

Spacing \_\_\_\_\_

Material \_\_\_\_\_

Page Ref. Manual \_\_\_\_\_

Page Ref. Manual \_\_\_\_\_

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

REVEGETATION

Treatment Area I

Treatment Area II

Lime 2 Tons/acre  
or correct to pH 6.5

\*Lime 2 Tons/acre  
or correct to pH 6.5

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

Mulch Hay or straw 2 Tons/acre

Mulch Hay or straw 2 Tons/acre

Seed\* Meadow Mix \_\_\_\_\_ lbs/acre

Seed\* Meadow Mix \_\_\_\_\_ lbs/acre

Orchardgrass 10 lbs/acre

Orchardgrass 10 lbs/acre

Red clover 12 lbs/acre

Red clover 12 lbs/acre

Alsike clover 4 lbs/acre

Alsike clover 4 lbs/acre

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

\*Lime according to pH test, PLAN PREPARED BY Berry Energy Consultants

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

ADDRESS P. O. Box 5

Clarksburg, WV 26301

PHONE NO. 622-3450

# Berry Energy Consultants & Managers, Inc.

ELEVENTH FLOOR  
UNION NATIONAL BANK BUILDING  
POST OFFICE BOX 5  
CLARKSBURG, WEST VIRGINIA 26301

W. B. BERRY  
PRESIDENT

October 17, 1983

PHONE: 304/622-3450

CERTIFIED MAIL

Josephine Casto  
Box 96  
Anmoore, WV 26323

RE: Well B-549

Dear Ms. Casto:

This Corporation as operator for and in behalf of J & J Enterprises, Inc., has scheduled the drilling of a proposed test well on the Casto Lease of 80 acres situate in Clark District, Harrison County which is the mineral tract on which you own the surface at the drill site.

Attached for your appraisal and review are the following copies.

- (1) IV-2 - Oil and Gas Well Permit Application
- (2) IV-2(A) - Notice of Application for a Well Work Permit
- (3) IV-2(B) - Notice of Application for a Well Work Permit
- (4) IV-9 - Construction and Reclamation Plan
- (5) Well Location Plat
- (6) Copy of lease dated July 21, 1983 by Josephine Casto and Andrew Casto, her husband and A. L. McQuaid.

The ideal method of processing the proposed drilling plans with you, is by a personal visit by one of our field representatives. However, should we fail in this endeavor, the subject package will be sent by Certified Mail to your address.


We are hopeful that you will find the application in order and that you will execute Form IV-2(B) which requires your signature approving the plan as outlined and return to this office in the enclosed stamped, self-addressed envelope.

These materials are being tendered to you due to the fact that you as a surface owner have the right to file comments before the permit is issued as outlined on the back of Form IV-2(B).

Should you have a suggestion or comment that you believe should be discussed, please contact us at your earliest convenience.

We are hopeful that you will find the permit application in satisfactory order as presented.

Very truly yours,



W. B. Berry

WBB:mac  
Enclosures  
cc: WV Department of Mines

**RECEIVED**

NOV 19 1983

OIL & GAS DIVISION  
**DEPT. OF MINES**



# Berry Energy Consultants & Managers, Inc.

ELEVENTH FLOOR  
UNION NATIONAL BANK BUILDING  
POST OFFICE BOX 5  
CLARKSBURG, WEST VIRGINIA 26301  
October 17, 1983

W. B. BERRY  
PRESIDENT

PHONE: 304/622-3450

## CERTIFIED MAIL

Josephine Casto  
Box 96  
Anmoore, WV 26323

RE: Well B-549  
Clark District  
Harrison County

Dear Ms. Casto:

This Corporation, as operator for and on behalf of J & J Enterprises, Inc., has scheduled the drilling of a Benson test well, identified as well B-549 at a location as indicated by the attached Department of Mines well location map and accompanying detail form.

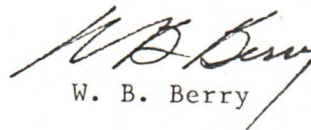
As required by state statute, we are obligated to advise you of the proposed well, thus affording you an opportunity to review the location as it relates to your mining activities, if any, and then to subsequently indicate your objection or acceptability of the proposed drill site.

We would very much appreciate an immediate response from you either indicating your approval of the well location or outlining your objections, if any, as required by the Department of Mines. However, under the State regulations, you are allowed 15 days for reciting the details of any protest which you may have.

Included in the package of information, is a Coal Owner's Waiver which, if you have no objection to the well location, we would appreciate you executing and return to us in the enclosed self-addressed, stamped envelope.

However, should you have any questions which you believe that we can assist you with, may we urge that you phone us without delay.

Yours very truly,

  
W. B. Berry

WBB:mac

Enclosures

cc: WV Department of Mines

**RECEIVED**  
NOV 13 1983

OIL & GAS DIVISION  
**DEPT. OF MINES**

DEPT. OF MINES & GEOLOGICAL SURVEY

RECEIVED

DEPT. OF MINES  
OIL & GAS DIVISION  
NOV 13 1953  
RECEIVED

*[Handwritten signature]*

# Berry Energy Consultants & Managers, Inc.

ELEVENTH FLOOR  
UNION NATIONAL BANK BUILDING  
POST OFFICE BOX 5  
CLARKSBURG, WEST VIRGINIA 26301

W. B. BERRY  
PRESIDENT

November 17, 1983

PHONE: 304/622-3450

## CERTIFIED MAIL

WV Department of Mines  
Office of Oil and Gas  
1615 Washington St. E.  
Charleston, WV 25311

**RECEIVED**  
NOV 18 1983

OIL & GAS DIVISION  
**DEPT. OF MINES**

RE: Well Permit Application  
Well B-549

Gentlemen:

Please find attached, the required completed forms (listed below) constituting our application for a drilling permit for our proposed well B-549 on the Casto lease comprised of 80 acres situate in Clark District, Harrison County.

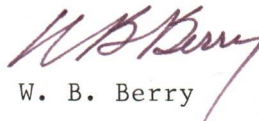
- (1) IV-2(A) - Notice of Application for a Well Work Permit
- (2) IV-2(B) - Application for a Well Work Permit
- (3) Mylar
- (4) IV-9 - Construction and Reclamation Plan (Approved)
- (5) Copy of our transmittal letters to the Coal and Surface Owner
- (6) Coal and Surface Owner copies (Approved)

Our check #4486 in the amount of \$350.00 for the required permit fee is attached.

J & J Enterprises, Inc. is presently operating under a blanket bond with the Department of Mines and accordingly request that this well be covered under the provisions of the existing bond coverage.

Should your department discover any discrepancies with the subject application and the various attachments, we would appreciate an immediate notice of such.

Yours very truly,

  
W. B. Berry

WBB:mac

Enclosures

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

Benson: Perforations: 4363-71 (12 holes)  
 Fracturing: 50,000 lbs. 20/40 sand:500 gal. acid: 530 Bbls. fluid.  
 Riley: Perforations: 3397-3399(5 holes) 3443(2 holes) 3635-37(5 holes)  
 Fracturing: 30,000 lbs. 20/40 sand: 500 gal. acid: 379 Bbls. fluid.  
 Balltown: Perforations: 3046-50(12 holes)  
 Fracturing:50,000 lbs. 20/40 sand: 750 gal. acid: 530 Bbls. fluid.

BOTTOM HOLE PRESSURE  $P_f = P_{we}^{XGLS} \frac{1}{53.34T} = \frac{1}{53.34(553.3)} = \frac{1}{29513} = 0.0000339$  Pf=(1350) (2.72)  
 $t=60+(4481 \times 0.0075) +459.7 = 553.3$  Pf=(1350) (1.068)  
 (0.0000339) (0.58) (3708.5) (0.9)

Pf=1442 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
Top Soil			0	10	
Shale & sand			10	120	½" stream @ 55'
Sand & shale			120	300	
Coal			300	303	1" stream @ 115'
Sand & shale			303	350	
Black shale			350	400	1" stream @ 810'
Sand & shale			400	590	
Black shale & sand			590	625	Gas ck @ 3093 No show
Sand & shale			625	785	
Sand & shale			785	1067	Gas ck @ 3124 14/10-½" w/water 7,841 cu.ft.
Red rock & shale			1067	1340	
Big Lime & Injun			1340	1535	Gas ck @ 3631 60/10-½" w/water 14,590 cu.ft.
Sand & shale & red rock			1535	2370	
5th Sand			2370	2410	
Sand & shale			2410	3046	Gas ck @ 4418 12/10-½" w/water 8,521 cu.ft.
Balltown			3046	3050	
Sand & shale			3050	3397	Gas ck @ T.D. 20/10-½" w/water 8,419 cu.ft.
Riley			3397	3399	
Sand & shale			3399	4363	
Benson			4363	4371	
Sand & shale			4371	4512	
				T.D.	

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Daniel O. Stark

Date: 4/6/84

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."

Eastern Pipeline  
meter on lease



IV-35  
(Rev 8-81)

RECEIVED  
MAY 30 1985

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date April 19, 1984  
Operator's  
Well No. B-549  
Farm Casto  
API No. 47 -033 -2951

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: 1052 Watershed Anmoore Run  
District: Clark County Harrison Quadrangle Clarksburg 7.5

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 Josephine Casto, et vir

ADDRESS Box 96, Anmoore, WV 26323

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Rt. 2, Box 232-D, WV 26378, Jane Lew,

PERMIT ISSUED 11/22/83

DRILLING COMMENCED 1/30/84

DRILLING COMPLETED 2/7/84

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	932	932	
7			
5 1/2			
4 1/2	4481	4481	
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4363-71 feet

Depth of completed well 4512 feet Rotary x / Cable Tools

Water strata depth: Fresh 55,115 feet; Salt 0 feet

Coal seam depths: 300-03 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4363-71 feet

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

Combined Final open flow 539 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1350 psig (surface measurement) after hours shut in  
(If applicable due to multiple completion--)

Second producing formation Balltown & Riley Pay zone depth 3046-50 3397-99 feet

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

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)



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

RECEIVED  
FEB 6 - 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-2951

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

		CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Company	<u>J + J Enterprises</u>	Size			
Address	<u>Berry</u>	16			Kind of Packer
Farm	<u>J - Casto</u>	13			
Well No.	<u>B 549</u>	10			Size of
District	<u>Clark</u> County <u>Har</u>	8 1/4			
Drilling commenced	<u>1-30-84</u>	6%			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	COAL WAS ENCOUNTERED AT <u>300</u> FEET <u>36</u> INCHES			
Salt water	feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
		_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names SWJ 21

Remarks: dd. at 320'

2-1-84

DATE

Steve Casey  
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  
FEB 7 - 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT

DEPT. OF MINES

Permit No. 33-2951

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

Company <u>J + J Enterprises</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address <u>Berry</u>	Size		
Farm <u>Casto</u>	16			
Well No. <u>B 549</u>	13			Size of _____
District _____ County <u>Harr.</u>	10			
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			
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 SWJ 21

Remarks: 8 5/8 at 932' 230 SKS. NowSCO

2-2-84

DATE

Steve Casey

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



RECEIVED

JUL 12 1985

OIL & GAS DIVISION  
**DEPT. OF MINES**  
State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
October 17, 1984

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

PERMIT NO 033-2951 (11-22-83)  
FARM & WELL NO Josephine Casto #B-549  
DIST. & COUNTY Clark/Harrison

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 type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input type="checkbox"/>	<input type="checkbox"/>

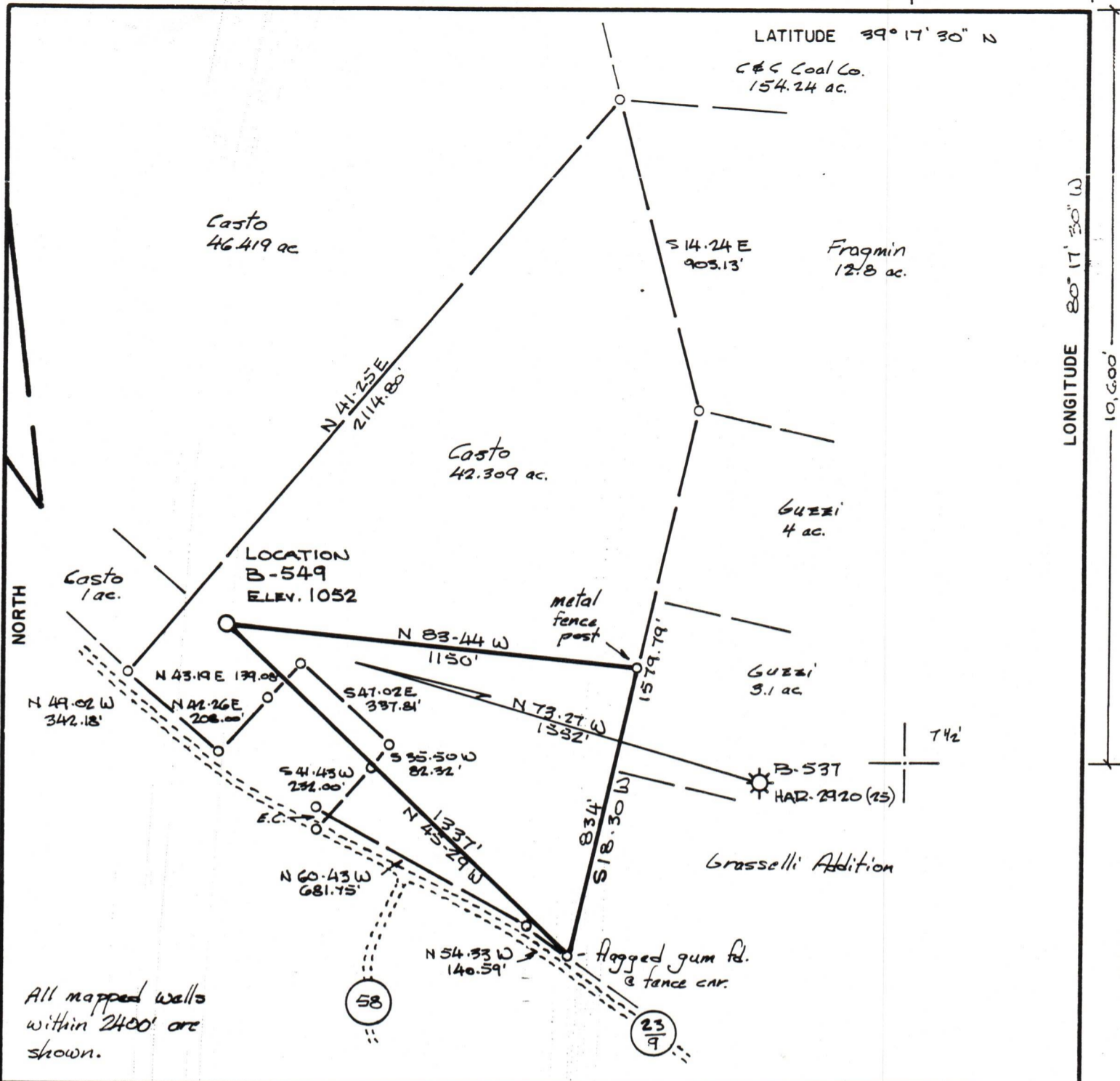
I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Steve Casey  
DATE 7-9-85

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

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

August 1, 1985  
DATE



FILE NO. Var. = 5.23  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Spot elevation e. of of  
Rd. 23/9 & 58, Mar. 1014

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) [Signature]  
 R. P. E. \_\_\_\_\_ L. L. S. 669

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE August 16, 19 83  
 OPERATOR'S WELL NO. B-549  
 API WELL NO. \_\_\_\_\_  
47 - 033 - 2951  
 STATE COUNTY PERMIT

Department of Mines  
 Oil & Gas Division

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1052 WATER SHED Ann Moore Run  
 DISTRICT Clark COUNTY Harrison  
 QUADRANGLE Clarksburg - T 1/2  
 SURFACE OWNER Josephine Casto et vir ACREAGE 42.309  
 OIL & GAS ROYALTY OWNER same LEASE ACREAGE 42.309  
 LEASE NO. 2399  
 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 Benson ESTIMATED DEPTH 4700  
 WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Berry Energy Consultants & Mgrs., Inc.  
 ADDRESS 40 Berry Energy Consultants & Mgrs., Inc. ADDRESS P.O. Box 5  
P.O. Box 5, Clarksburg, WV 26301 Clarksburg, WV 26301