



1) Date: February 8, 19 84
 2) Operator's Well No. Plum #1
 3) API Well No. 47 - 73 - 1809
 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: 966' Watershed: Panther Run
 District: McKim County: Pleasants Quadrangle: Ellenboro
 6) WELL OPERATOR Techwell, Inc. 7) DESIGNATED AGENT Darus H. Zehrbach
 Address P.O. Box 796 Address same
Morgantown, WV 26505
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mr. Bob Lowther 758-4764 Name _____
 Address General Delivery Address _____
Middlebourne, WV 26149
 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Marcellus Shale
 12) Estimated depth of completed well, 5995 feet
 13) Approximate trata depths: Fresh, 55 & 250 feet; salt, 1370 feet.
 14) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No

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15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling		
Conductor	13				X	20	0	Kinds
Fresh water	11.75			X		280	280	CTS 15.05
Coal								Sizes
Intermediate	8.625			X		1879	1879	CTS
Production	4.5			X		5995	5995	CTS or 15.01
Tubing								Depths set
Liners								Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-073-1809 Date March 13, 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 March 13, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing	Fee
	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>804</u>

[Signature]
 Administrator, Office of Oil and Gas

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



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

OFFICE USE ONLY

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

1) DATE: February 8, 1984

2) OPERATOR: B. L. "Gas" Production, Inc. Address: Morgantown, WV 26505

3) WELL NO.: 47-73-1800

4) COUNTY: Mingo

5) DISTRICT: Mingo

6) DESIGNATED AGENT: Darius E. Nebbsch

7) ADDRESS: same

8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Mr. Bob Lowiner 758-4764

9) DRILLING CONTRACTOR: Name: General Delivery, Middlebourne, WV 26149

10) PROPOSED WELL WORK: Drill Plug off old formation Other physical change in well (specify):

11) GEOLOGICAL TARGET FORMATION: Marceline Shale

12) ESTIMATED DEPTH OF COMPLETED WELL: 5992

13) APPROXIMATE TRAP DEPTHS: Fresh: 55 & 250

14) APPROXIMATE COAL SEAM DEPTHS: none

15) CASING AND TUBING PROGRAM: See table below

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CASING OR TUBING TYPE	SIZE	OTHER	SPECIFICATIONS		FOOTAGE INTERVALS		DEPTH IN FEET	PACKERS
			NEW	USED	TOP OF INTERVAL	BOTTOM OF INTERVAL		
Production	8.5		X		5992	5992	5992	CTS of 15.01
Intermediate	8.625		X		1879	1879	1879	CTS
Case								
Fresh water	11.75		X		280	280	280	CTS 12.05
Conductor	13		X		20	20	0	None

OFFICE USE ONLY

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

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

OTHER INSPECTIONS

Reason:	Agent	Plan	Casing	Rec
	MW	MW	MW	

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 L.W. Plum Estate
Address RT 2 Box 117
St. Marys, WV 26170
- (ii) Name _____
Address _____
- (iii) Name _____
Address _____

5(i) COAL OPERATOR
Address _____

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

Name _____
Address _____

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

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

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

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

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

6) EXTRACTION RIGHTS

Check and provide one of the following:

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

7) ROYALTY PROVISIONS

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

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

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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

David A Zehrbach
this 8th day of September, 1983.
My commission expires MARCH 24, 1991.

WELL OPERATOR Techwell, Inc.
By [Signature]
Its Designated Agent
Address P.O. Box 796
Morgantown, WV 26505
Telephone 304/291-3843

[Signature]
Notary Public, MAXION County,
State of WEST VIRGINIA

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

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

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

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

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>

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IV-9
(Rev 8-81)

DATE 15 FEBRUARY, 1984

WELL NO. PLUM #1

API NO. 47 - 073 - 1809

State of West Virginia

Department of Mines

Oil and Gas Division

Construction & Reclamation Plan

Field Review

COMPANY NAME TECHWELL, INC.

ADDRESS P.O. BOX 796

MORGANTOWN, W. VA. 26505

Telephone (304) 291-3843

LANDOWNER LUTHER W. PLUM ESTATE

Revegetation to be carried out by TECHWELL, INC.

DESIGNATED AGENT DARUS ZEHRBACH

ADDRESS P.O. BOX 796

MORGANTOWN, W. VA. 26505

Telephone (304) 291-3843

SOIL CONS. DISTRICT UPPER OHIO

(Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan: 3/1/84

(Date)

Kenneth R. Mason
(SCD Agent)

ACCESS ROAD

LOCATION

Structure _____ (A)

Spacing _____

Page Ref. Manual _____

Structure _____ (B)

Spacing _____

Page Ref. Manual _____

Structure _____ (C)

Spacing _____

Page Ref. Manual _____

Structure _____ (1)

Material _____

Page Ref. Manual _____

Structure _____ (2)

Material _____

Page Ref. Manual _____

Structure _____ (3)

Material _____

Page Ref. Manual _____

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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

Lime _____ Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch HAY OR STRAW 2 Tons/acre

Seed* ORCHARD GRASS 12 lbs/acre

LADINO CLOVER 3 lbs/acre

TIMOTHY 6 lbs/acre
lbs/acre

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

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch HAY OR STRAW 2 Tons/acre

Seed* ORCHARD GRASS 12 lbs/acre

LADINO CLOVER 3 lbs/acre

TIMOTHY 6 lbs/acre
lbs/acre

PLAN PREPARED BY WILLIAM R. MOSSOR, L.L.S.

ADDRESS 106 NORTH SPRING STREET

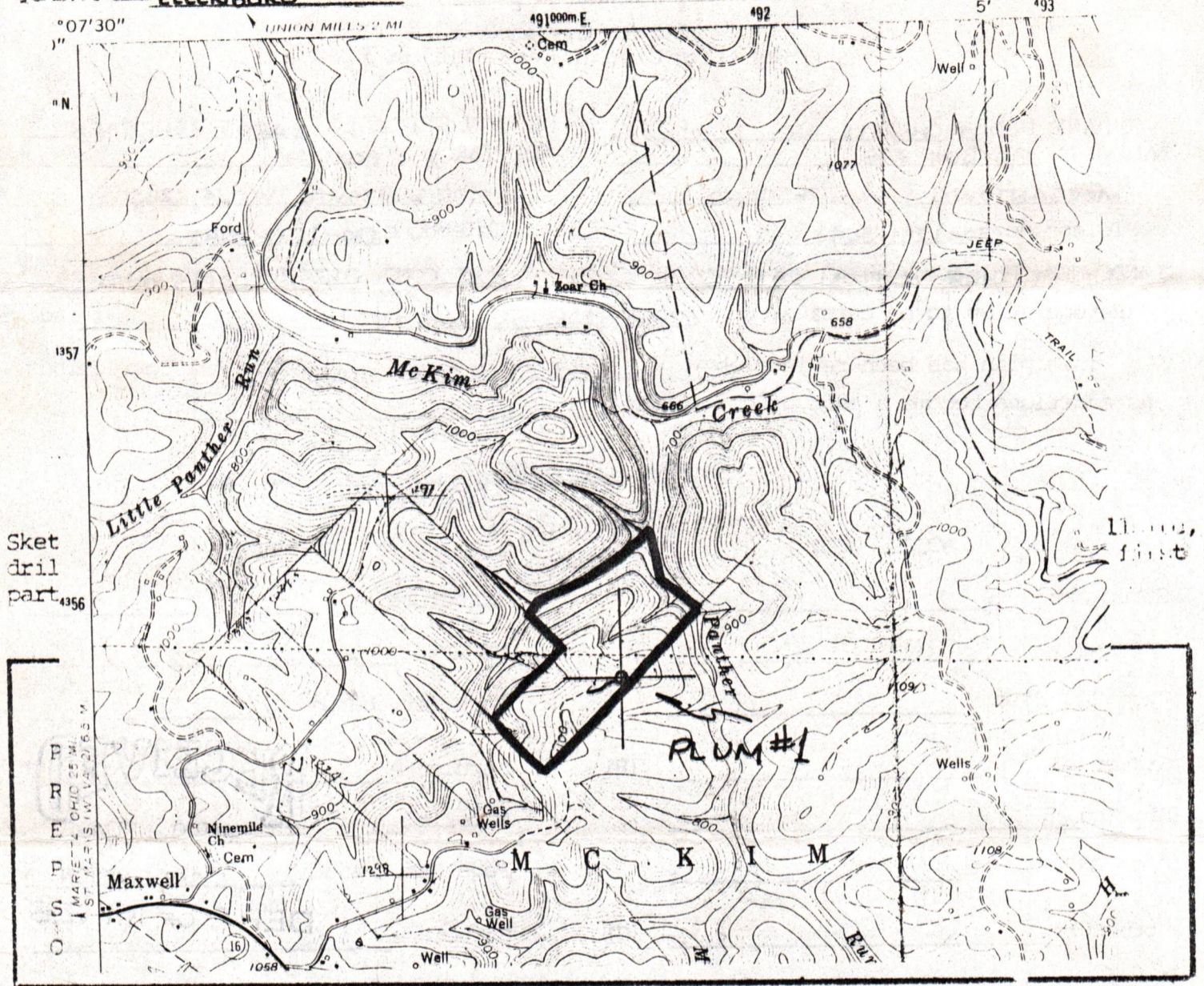
HARRISVILLE, W. VA. 26362

PHONE NO. (304) 643-4572

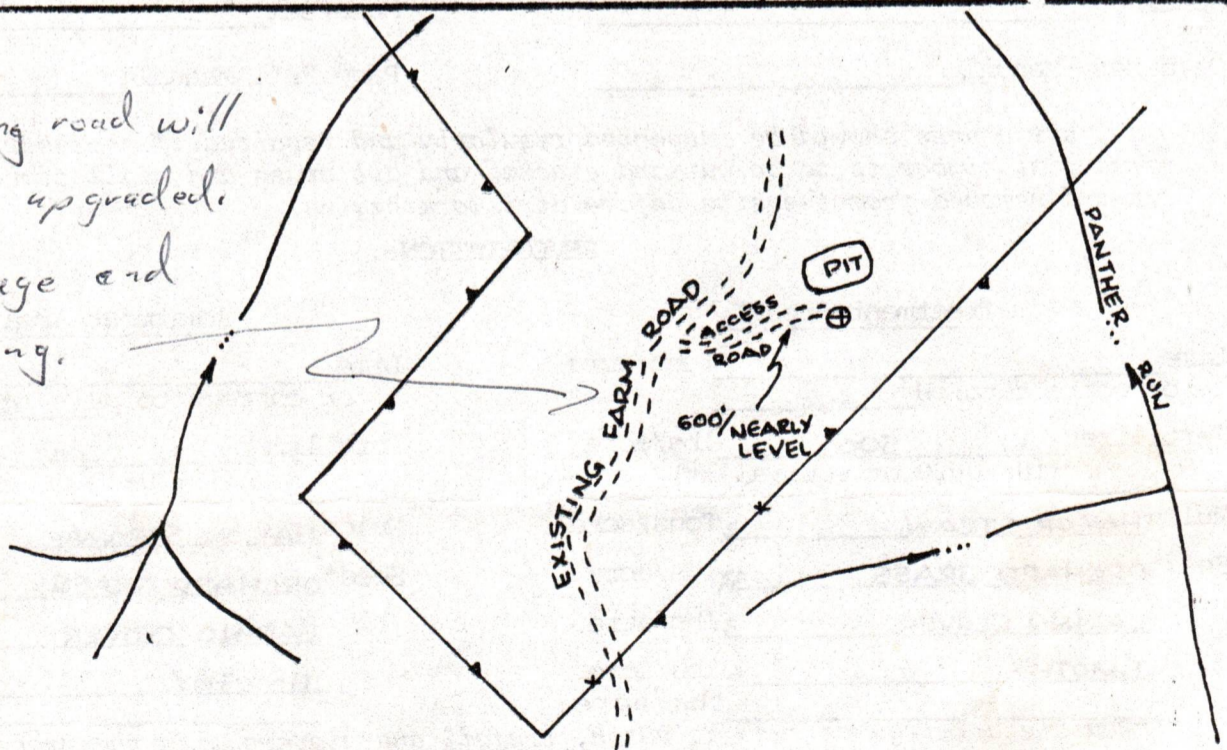
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE ELLENBORO

LEGEND
WELL SITE ⊕ ACCESS ROAD —



This existing road will
have to be upgraded.
Side drainage and
road grading.



- Comments:
1. LENGTH OF ACCESS ROAD 600'.
 2. NO CUT OR FILL NEEDED.
 3. BRUSH TO BE PILED AND BURNT AT SITE.
 4. TREES TO BE CUT AND STACKED AT SITE.
 5. LOCATION IS APPROXIMATELY 2500' NORTHEAST OF COUNTY ROUTE 50/5.
 6. LOCATION LOCATED ON RIDGE.



1) Date: February 8, 19 84
 2) Operator's Well No. Plan #1
 3) API Well No. 47 State 73 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: 966' Watershed: Panther Run
 District: McKim County: Pleasants Quadrangle: Ellenboro
- 6) WELL OPERATOR Techwell, Inc. 7) DESIGNATED AGENT Darus H. Zehrbach
 Address P.O. Box 796 Address same
Morgantown, WV 26505
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mr. Bob Lowther 758-4764 Name _____
 Address General Delivery Address _____
Middlabourne, WV 26149
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 12) Estimated depth of completed well, 5995 feet
- 13) Approximate strata depths: Fresh, 55 & 250 feet; salt, 1370 feet.
- 14) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No 1
- 15) CASING AND TUBING PROGRAM

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CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	<u>13</u>				<input checked="" type="checkbox"/>	<u>20</u>	<u>0</u>		Kinds
Fresh water	<u>1.75</u>			<input checked="" type="checkbox"/>		<u>280</u>	<u>280</u>	<u>CTS 15.03</u>	
Coal									Sizes
Intermediate	<u>1.625</u>			<input checked="" type="checkbox"/>		<u>1879</u>	<u>1879</u>	<u>CTS</u>	
Production	<u>6.5</u>			<input checked="" type="checkbox"/>		<u>5995</u>	<u>5995</u>	<u>CTS or 15.01</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: S.W. Plum Estate
 By Mary Alice Plumm
 Its Executive Date 2/24/84

Mary Alice Plumm Date: 2/24/84
 (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.

Plum

OIL AND GAS LEASE

(Paid-up)

THIS AGREEMENT, made this 8th day of November 19 83, by and between MARY ALICE PLUM, single; LORENE TEMPLETON and GUY EDWARD TEMPLETON, her husband; ALBERTA TEMPLETON and WILLIAM EUGENE TEMPLETON, her husband; BELVA M. HORNER and NORMAN A. HORNER, her husband; PALMER G. PLUM and DOROTHY V. PLUM, his wife; REBECCA TEMPLETON and LEROY TEMPLETON, her husband; EARL JOSEPH DeMOSS and WANDA DeMOSS, his wife; LOUISE BILLS and LESTER BILLS, her husband; HAZEL DAVIS and JAMES DAVIS, her husband, whose post office address is

hereinafter called "Lessor" (whether one or more) and TECHWELL, INCORPORATED, hereinafter call "Lessee";

WITNESSETH:

1. For and in consideration of TEN Dollars, receipt of which is hereby acknowledged, and of the covenants and agreements herein contained, Lessor does hereby grant, demise, lease, and let unto Lessee the lands hereinafter described, with the exclusive rights of conducting geological, geophysical, and other exploratory work (including core drilling), and of exploring, drilling, and operating wells for oil and gas thereon, and producing and transporting the oil and gas therein, together with the right to construct and maintain all pipe lines, tanks, structures and telephone lines that Lessee may deem necessary or convenient for the production and transportation of oil, gas or water, or any one or more of them, from this and any other lands held by Lessee under oil and gas leases, together with rights of way over said premises for the purposes aforesaid; said premises being that tract of land with any reversionary rights therein

situated in McKim District, Pleasants County,

State of West Virginia, and bounded as follows:

- On the North by Ralph E. Cox; Arthur C. Cox;
- On the East by W.B. Locke estate; Westvaco;
- On the South by Mabel Brammer; and
- On the West by Leslie Hamlin, et al;

containing Eighty-seven (87) acres,

more or less, hereinafter called the "premises", and being the same land conveyed to Lessor by the Will of Luther W. Plum by Will

dated 13 May 77 / probated 18 April 80 and recorded in Book 10 at page 128 in the proper office for the recordation of deeds of said County.

Handwritten signatures and initials: J.P. D. W. P. L. J. R. J. L. J. M. P. L. B. W. L. R. D. U. P. J. D. one (1) B. H. N. H. A. T.

2. TO HAVE AND TO HOLD said premises for the purposes aforesaid during the term of one (1) years from the date hereof (called "primary term"), and as long thereafter as drilling or reworking operations for oil or gas are conducted thereon as hereinafter provided, or oil or gas is produced therefrom, or this lease is extended by any subsequent provision hereof. It is understood and agreed that this is a fully paid-up lease and may be maintained during the entire primary term without further payment or drilling operations by Lessee.

3. Lessee agrees to deliver to Lessor, in tanks, tank cars, or pipe line, a royalty of one-eighth (1/8) of all oil produced and saved from the premises, and to pay to Lessor for gas produced from any oil well and used by Lessee for the manufacture of gasoline or any other product as royalty one-eighth (1/8) of the market value of such gas at the mouth of the well; if such gas is sold by the Lessee, then as royalty one-eighth (1/8) of the proceeds of the sale thereof at the mouth of the well. The Lessee shall pay Lessor as royalty one-eighth (1/8) of the proceeds from the sale of gas as such at the mouth of the well where gas, condensate, distillate or other gaseous substance is found. Provided, however, that if at any time during or after the primary term there is a gas well or wells on the premises or on lands pooled therewith, and gas is not being used or sold therefrom, Lessee, during such time that gas is not being used or sold therefrom, may at its option pay as shut-in royalty a sum equal to one dollar (\$1.00) per year per acre, on the number of acres subject to this lease at the time such payment is made. Such shut-in royalty shall be due on or before the end of each year that said gas well or wells are shut in (the first period commencing on the date of shut-in), and payment or tender of such shut-in-royalty shall have the same force and effect as production obtained from the premises under paragraph 2 hereof as to the extension of the term of this lease. Such shut-in royalty shall be paid to the royalty owners of the premises, entitled thereto. No royalties shall be due on any gas produced by Lessee and injected into the subsurface strata for secondary recovery purposes through a well or wells located either on the premises or on lands pooled therewith.

4. If during the last year of or at the expiration of the primary term oil or gas is not produced on the premises and shut-in royalty is not being paid, but Lessee is engaged in drilling or reworking operations thereon, this lease shall continue in force so long as Lessee continues such operations without the lapse of more than ninety (90) days between the abandonment of work on one (1) well and the commencement of reworking operations or operations for the drilling of another well. If during the last year of or at or after the expiration of the primary term, all of the wells on the premises shall cease to be capable of producing oil or gas, then this lease shall continue in force for ninety (90) days from such date. Lessee may continue this lease in force beyond said ninety (90) days by either (a) restoring production or (b) tendering shut-in royalty payments or (c) commencing reworking operations or operations for the drilling of another well on or before the termination of ninety (90) days, and, in the event of reworking or other operations under (c) hereof, this lease shall continue so long as

... continues such operations without the lapse of more than ninety (90) days between the abandonment of work on one (1) well and the commencement of reworking operations or the operations of the drilling of another well. Upon the commencement of or restoration of production as the result of operations prosecuted under any part of this paragraph, this lease shall continue as long thereafter as oil or gas is produced or this lease is extended by any other provision hereof.

5. All payments under this lease may be made in cash or by check or draft payable to the order of _____

Each Individual Lessor

and sent by United States

mail addressed to _____ Each Lessor's Address

at _____

(or such other address as Lessor may designate in writing), or by deposit to the credit of _____

in the _____

Bank at _____

_____, which bank is hereby nominated and constituted the agent and depository for the Lessor, his heirs, personal representatives and assigns to accept, receive and receipt for all monies payable by Lessee hereunder, and shall continue as such depository regardless of changes in the ownership of said land or transfer of the Lessor's rights.

6. Lessor hereby covenants and agrees that Lessee at its option, but without any obligation to do so, may pay and discharge any and all taxes, mortgages or other liens and encumbrances upon the premises in the event of default of payment by Lessor, and in that event Lessee shall be subrogated to all the rights of the holder or holders of such mortgages or other liens and encumbrances, with full right to enforce the same, or may retain for the payment of such taxes, mortgages or other liens and encumbrances the royalties accruing hereunder, upon giving notice to Lessor or the depository named in paragraph 5 herein of Lessee's intent to so retain such royalties.

7. If Lessor owns a lesser interest in the oil and gas in the premises than the entire undivided fee simple estate, then the royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee; however, if title to any interest in the premises should become owned by or revert to Lessor, or his heirs, devisees, executors, administrators or his or their successors in interest, this lease shall cover such interest or reversion; and royalties (and shut-in royalties if payable) hereunder shall be increased upon Lessor's compliance with paragraph 16 hereof and with the effect as provided in paragraph 16. If the true acreage of the premises shall be found to be less than the number of acres above recited, the shut-in royalty hereunder shall be reduced proportionately, and the Lessor hereby releases Lessee from payment of shut-in royalty upon any acreage in excess of the true acreage of the premises.

8. In case of any controversy or dispute regarding title to the premises or any part thereof, or regarding the ownership of any sums payable hereunder, Lessee shall have the right to withhold and retain all sums payable hereunder which are subject to such controversy or dispute until the final determination of said controversy or dispute and then to distribute the same among those lawfully entitled thereto.

9. Lessee shall have the right to use, free of royalty or any other charge, gas, oil and water from the premises for drilling operations on the premises.

10. No well shall be drilled nearer than two hundred (200) feet to any house or barn now on the premises without Lessor's written consent. Lessee shall pay all damages caused by its operations to growing crops on the premises, and, when so requested by Lessor, shall bury all pipe lines on cultivated portions of the premises, except those used to conduct gas, oil, other liquid or gaseous hydrocarbons, or water to drilling wells.

11. Lessor may lay a line to any gas well on the premises and take gas produced from said well for light and heat in the one (1) principal dwelling house on the premises at Lessor's own risk, subject to the use and right of abandonment of said well by Lessee. The first one hundred fifty thousand (150,000) cubic feet taken in any calendar year shall be free, but all gas in excess of one hundred fifty thousand (150,000) cubic feet taken in each calendar year shall be paid for by Lessor at the then established rate of Lessee. Lessee shall install and maintain a meter for the measurement of gas taken by Lessor.

12. Lessee at its option may pool or combine the premises or any part thereof with other adjacent lands for a drilling unit or drilling units, each of which units shall be no more than six hundred (600) acres, each plus a tolerance of 10% thereof and on each of which units a well (or wells) has been or may be drilled. Notwithstanding anything to the contrary contained in this lease, the commencement of operations for the drilling of a well on any such drilling unit shall have the same force and effect in all respects as the commencement of operations for the drilling of a well on the premises hereby leased; and drilling or reworking operations conducted on any such drilling unit or production of oil or gas anywhere from such drilling unit shall have the same force and effect as drilling or reworking operations conducted on or production obtained from the premises as to the extension of the term of this lease; provided, however, that in lieu of the royalties elsewhere herein specified and subject to the provisions of paragraph 7 hereof, Lessor shall receive from production from each unit so pooled only such portion of the royalties stipulated herein as the number of acres of the premises included in such unit bears to the total number of acres in such unit; provided, however, no reduction of shut-in royalties shall be made under this provision; provided further, Lessor may have only that portion of the quantity of free gas set forth in paragraph 11 hereof that the number of acres of the premises in such unit bears to the total number of acres in such unit. Lessor agrees to give free right of way over and through premises for service lines of all other members of the unit as well as all lines of Lessee.

13. Lessee shall have the right at any time and from time to time before or after expiration of this lease to remove all pipe lines, machinery, fixtures, equipment and other property placed by it on the premises, including the right to draw and remove casing.

14. This lease shall never be forfeited or terminated for failure of Lessee to perform in whole or in part any of its express or implied covenants, conditions or obligations until it shall have been first finally judicially determined that such failure exists, and Lessee shall have

14. This lease shall never be forfeited or terminated for failure of Lessee to perform in whole or in part any of its express or implied covenants, conditions or obligations until it shall have been first finally judicially determined that such failure exists, and Lessee shall have a reasonable time after such final determination within which to comply with any such covenants, conditions or obligations.

15. Lessor hereby generally warrants and agrees to defend the title to the premises, and covenants that Lessee shall have quiet possession of the premises.

16. This lease and all of the covenants and terms thereof shall extend to and bind the heirs, personal representatives, successors and assigns of Lessor and Lessee. The estate of either party hereto may be assigned in whole or in part. It is provided, however, that no change of ownership in the premises (however accomplished, including after acquired title or reversions) or in the royalties, or of the right to receive payments hereunder, whether by act of the parties or by operation of law, shall be binding on Lessee until thirty (30) days after Lessee has been furnished by Lessor, or Lessor's successor in interest, with evidence satisfactory to Lessee of such change of ownership or right to receive payments, including if effected by written instrument, the original recorded instrument or a copy thereof certified by the recording official. Evidence of change of ownership shall not affect or invalidate any prepayments or payments made in advance by Lessee whether or not such payments were due, or payments made within thirty (30) days after receipt of such evidence by Lessee, whether or not such payments were due, and Lessee shall be under no obligation for additional payments because of change of ownership. Notwithstanding the death of the Lessor, or his successor in interest, the payment or tender of royalties or other payments herein provided in the manner provided herein shall be binding on the heirs, devisees, executors and administrators of the Lessor and his successors in interest. Regardless of changes of ownership of the premises, or portions thereof, the premises may be developed and operated as one lease and Lessee shall have no obligation to offset wells on separate tracts into which the premises is now divided or hereafter may be divided by sale, devise, or otherwise, or to furnish separate measuring or receiving tanks or meters. In the event this lease is assigned as an entirety, or as to a part or as to parts of the premises, Lessee or any subsequent assignor shall be released from all liability hereunder arising or accruing subsequent to the date of such assignment as to the part or parts so assigned, and the assignee thereof shall thereupon be deemed to have assumed and shall be responsible for the covenants, conditions and obligations of this lease as to the part or parts so assigned. Should the holder or owner of this lease as to any part or parts of the premises fail or make a default in any of the covenants, conditions or obligations of this lease, express or implied, such failure or default shall not operate to affect this lease insofar as it covers a part or parts of said lease upon which Lessee or any subsequent assignee thereof shall comply with the terms and provisions of this lease.

17. In the event Lessee is rendered unable, in whole or in part, by a force majeure to carry out its obligations under this agreement, other than to make payments of amounts due hereunder, or should Lessee be prevented from conducting drilling or reworking operations on or from producing oil or gas from the premises by a force majeure or by any federal or state law or any order, rule or regulation of governmental authority, then while so prevented, Lessee's obligation to comply with such covenant shall be suspended, and Lessee shall not be liable in damages for failure to comply therewith; and this lease shall be extended while and so long as Lessee is prevented by any such cause from conducting drilling or reworking operations on or from producing oil or gas from the premises; and the time while Lessee is so prevented shall not be counted against Lessee, anything in this lease to the contrary notwithstanding. The term 'force majeure' as used herein shall be Acts of God, strikes, lockouts, or other industrial disturbances, acts of the public enemy, wars, blockades, riots, epidemics, lightning, earthquakes, explosions, accidents or repairs to machinery or pipes, delays of carriers, inability to obtain materials or rights of way on reasonable terms, acts of public or governmental authorities, or any other causes, whether or not of the same kind as enumerated herein, not within the control of the Lessee and which by the exercise of due diligence Lessee is unable to overcome.

18. Lessee may defer payment of any sum due lessor, or to any payee hereunder, until the total sum due to lessor or to such payee shall equal Three Dollars (\$3.00), whereupon payment shall promptly be made.

19. Lessee at any time and from time to time, may surrender this lease as to all or any part or parts of the premises by recording an appropriate instrument of surrender in the proper county, and thereupon this lease, and the rights and obligations of the parties hereunder, shall terminate as to the part or parts so surrendered. Upon each surrender as to any part or parts of the premises, the shut-in royalties specified above shall be proportionately reduced on a surface acreage basis, and Lessee shall have reasonable and convenient easements for pipe lines, pole lines, roadways, and other facilities through and over the portions of the premises surrendered for the purpose of continuing operations on the portions of the premises retained.

20. The term "gas" as used herein denotes gas in its natural state as produced from the well, including its content of liquid hydrocarbons and their constituent vapors, and all other gases.

21. All expressed or implied covenants of this lease shall be subject to all Federal and State laws, executive orders, rules or regulations, and this lease shall not be terminated in whole or in part, nor shall Lessee be held liable in damages, for failure to comply therewith if compliance is prevented by, or if such failure is the result of, any such law, order, rule or regulation.

22. The consideration paid for this lease and/or royalties or shut-in royalties paid by Lessee hereunder is accepted by Lessor as full and adequate consideration for all rights, options and privileges herein granted, including the right of surrender at any time and from time to time.

23. This lease states the entire contract between the parties, and no representation or promise, verbal or written, on behalf of either party shall be binding unless contained herein. This contract shall be binding upon each of the parties who shall execute the same, regardless of whether or not all of the parties named as Lessor shall execute it.

IN WITNESS WHEREOF, the parties have signed, sealed and delivered this instrument as of the day and year first above written.

WITNESSES:

Mary Alice Plum
Mary Alice Plum
x *Lorene Templeton*
Lorene Templeton
x *Guy Edward Templeton*
Guy Edward Templeton
x *Alberta Templeton*
Alberta Templeton
x *William Eugene Templeton*
William Eugene Templeton

HALLIBURTON SERVICES JOB SUMMARY

FORM 2025

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

Pittsburgh, PA
Reno, Ohio

BILLED ON
TICKET NO. 295388

WELL DATA

FIELD	SEC.	TWP.	RNG.	COUNTY	PLEASANTS	STATE	WV.		
FORMATION NAME	TYPE		NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE	
FORMATION THICKNESS	FROM	TO	CASING	N	42	1 1/4	KB	232	200
INITIAL PROD: OIL	BPD. WATER	BPD. GAS	MCFD	LINER					
PRESENT PROD: OIL	BPD. WATER	BPD. GAS	MCFD	TUBING					
COMPLETION DATE	MUD TYPE	MUD WT.	OPEN HOLE					SHOTS/FT.	
PACKER TYPE	SET AT		PERFORATIONS						
BOTTOM HOLE TEMP.	PRESSURE		PERFORATIONS						
MISC. DATA	BORE 15"	TOTAL DEPTH	PERFORATIONS						
		250							

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4/10/84	DATE 4/10/84	DATE 4/10/84	DATE 4/10/84
TIME 2345	TIME 0055	TIME 0218	TIME 0243

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D.N. PAUGH	31282 CMTR	RENO, OH.
H. WARNER	9505 61-C	RENO, OH.
J. DRAKE	50100 T.P.	RENO, OH.

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG 1 1/4" 5W	1EA	Howco
HEAD PC MANIFOLD	1EA	Howco
PACKER		
OTHER		

MATERIALS

TREAT. FLUID	DENSITY	LB/GAL. API
DISPL. FLUID	DENSITY	LB/GAL. API
PROP. TYPE	SIZE	LB.
PROP. TYPE	SIZE	LB.
ACID TYPE	GAL.	%
ACID TYPE	GAL.	%
ACID TYPE	GAL.	%
SURFACTANT TYPE	GAL.	IN
NE AGENT TYPE	GAL.	IN
FLUID LOSS ADD. TYPE	GAL.-LB.	IN
GELLING AGENT TYPE	GAL.-LB.	IN
FRIC. RED. AGENT TYPE	GAL.-LB.	IN
BREAKER TYPE	GAL.-LB.	IN
BLOCKING AGENT TYPE	GAL.-LB.	
PERFPAC BALLS TYPE	QTY.	
OTHER	Howco 601	
OTHER		

RECEIVED

DEPARTMENT
APR 11 1984
DESCRIPTION OF JOB

OIL & GAS DIVISION
DEPT. OF MINES

CEMENT
CEMENT 1 1/4" CASING
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X W.C. Lyons
HALLIBURTON OPERATOR Dennis N. Paugh
COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	120	STD A	A	Howco	B	3% CAL. CHL., 1/4" Floccle	1.18	15.6

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING	DISPLACEMENT	PRELUSH: BBL.-GAL.	TYPE
BREAKDOWN	MAXIMUM	LOAD & BKDN: BBL.-GAL.	5
AVERAGE	FRACTURE GRADIENT	TREATMENT: BBL.-GAL.	25
SHUT-IN: INSTANT	5-MIN.	CEMENT SLURRY: BBL.-GAL.	25.2
	15-MIN.	TOTAL VOLUME: BBL.-GAL.	
ORDERED	AVAILABLE	USED	REMARKS
	AVERAGE RATES IN BPM		SEE JOB LOG
TREATING	DISPL.	OVERALL	
	CEMENT LEFT IN PIPE		
FEET	REASON		

CUSTOMER

CUSTOMER
LEASE
WELL NO.
JOB TYPE
DATE



IV-35
(Rev 8-81)

MAR 28 1986

State of West Virginia
Department of Mines
Oil and Gas Division

Date 1/14/85
Operator's Well No. Plum#1
Farm L.W. Plum
API No. 47 - 073 - 1809

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas x / Liquid Injection / Waste Disposal /
(If "Gas," Production x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 966' Watershed Panther Run
District: McKim County Pleasants Quadrangle Ellenboro

COMPANY Techwell, Inc.

ADDRESS P.O. Box 796 Morgantown, WV 26505

DESIGNATED AGENT Darus H. Zehrbach

ADDRESS same

SURFACE OWNER Luther W. Plum Estate

ADDRESS Ellenboro

MINERAL RIGHTS OWNER same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Bob

Lowther ADDRESS Middlebourne, WV

PERMIT ISSUED 3/13/84

DRILLING COMMENCED 4/11/84

DRILLING COMPLETED 4/15/84

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 Coid.			
13-10"	250	all	cts
9 5/8			
8 5/8	2014	all	cts
7			
5 1/2			
4 1/2	5970	all	cts
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5950 feet

Depth of completed well 5970 feet Rotary x / Cable Tools

Water strata depth: Fresh 200 feet; Salt 1370 feet

Coal seam depths: 1560 & 1850 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Marcellus Shale Pay zone depth 5816-5591 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 800 Mcf/d Final open flow 13 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 2600 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation Hamilton Pay zone depth 4812-3618 feet

Gas: Initial open flow - Mcf/d Oil: Initial open flow 13 Bbl/d

Final open flow 122 Mcf/d Oil: Final open flow 1 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)

PLAS 1809

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

120 tons CO2, 375,000 SCF N2, 3000 gallons acid per stage

1st stage--5816-5808	15 shots
5772-5766	5 shots
5710-5704	5 shots
5655-5650	5 shots
5600-5591	5 shots
2nd stage--4812-4808	5 shots
4070-4064	5 shots
3628-3618	10 shots

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of oil and salt water, coal, oil a
Overburden			0	25	
Shale			25	200	
Sandstone			200	250	
Shale & Sandstone			250	275	
Shale			275	350	
Sandstone			350	370	
Shale			370	480	
Shale & Sandstone			480	500	
Shale			500	700	
Sandstone			700	740	
Shale & Siltstone			740	850	
Shale & Sandstone			850	950	
Sandstone			950	990	
Shale			990	1050	
Sandstone			1050	1070	
Shale			1070	1230	
Siltstone			1230	1340	
Siltstone & Shale			1340	1430	
Sandstone			1430	1520	
Shale			1520	1560	
Shale & Coal			1560	1570	
Sandstone			1570	1660	oil show
Shale and Siltstone			1660	1730	
Sandstone			1730	1750	
Shale			1750	1790	
Sandstone			1790	1850	oil show
Shale & Coal			1850	1860	
Shale			1860	1890	
Limestone			1890	1920	Big Lime
Sandstone			1920	1990	Big Injun oil show
Shale			1990	2010	
Sandstone			2010	2080	
Shale & Siltstone			2080	2410	
Sandstone			2410	2430	
see attachment					

(Attach separate sheets as necessary)

Techwell, Inc.

Well Operator

By: W.M. Balfour, CPG E. Ray Garton-Geologist

Date: Jan. 14, 1985

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
 and enclosed in the log of a well."

Plum #1 73-1809
log continued

Shale	2430	2640	
Shale & Sandstone	2640	2820	
Shale & Siltstone	2820	3300	DEV. Shales undiff.
Siltstone	3300	3360	
Shale	3360	4000	
Siltstone	4000	4020	
Shale	4020	4170	
Shale & Siltstone	4170	4330	
Shale	4330	5060	
Shale & Siltstone	5060	5120	
Shale	5120	5350	
Shale & Siltstone	5350	5410	
Shale	5410	5610	
Shale & Siltstone	5610	5650	
Shale	5650	5910	
Shale & Siltstone	5910	5950	prod. zone
Shale	5950	5970	TD

PLEAS 1809

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

INSPECTOR'S WELL REPORT

Permit No. 073-1809

Oil or Gas Well _____
(KIND)

Company Teckwell
Address Morgantown w. Va.
Farm plum
Well No. 1
District McKim County Pleasant
Drilling commenced 4-9-84
Drilling completed _____ Total depth 605
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 <u>11 3/4</u>	<u>232</u>	<u>232</u>	Size of _____
8 1/4			
6 1/2			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used	RECEIVED APR 13 1984 OIL & GAS DIVISION DEPT. OF MINES		Perf. top _____
			Perf. bottom _____

CASING CEMENTED 11 3/4 SIZE 232 No. FT. 4-11-84 Date
NAME OF SERVICE COMPANY Haltiburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: cemented with 120 SKS Std Cement
warned to install Blowout preventer

april 11-84
DATE

R.A. Louthen
DISTRICT WELL INSPECTOR

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

RECEIVED

APR 17 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1809

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Teckwell</u>	Size			
Address <u>Morgantown W. Va.</u>	16			Kind of Packer _____
Farm <u>plum</u>	13			
Well No. <u>1</u>	10			Size of _____
District <u>McKim</u> County <u>Pleasant</u>	8 1/4	<u>2014</u>	<u>201K</u>	
Drilling commenced _____	6 1/2			Depth set _____
Drilling completed _____ Total depth <u>203 1/2</u>	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>8 5/8</u> SIZE <u>2014</u> No. FT. <u>4-12-84</u> Date			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>Halliburton</u>			
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: Cement Returned to surface

april 12-84
DATE

R. A. Lowther
DISTRICT WELL INSPECTOR

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

RECEIVED
APR 19 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1809

Oil or Gas Well _____
(KIND)

Company Teckwell INC
Address Morgantown W. Va.
Farm plum
Well No. 1
District McKim County Pleasants
Drilling commenced _____
Drilling completed 4-15-84 Total depth 5985
Date shot _____ Depth of shot _____
Initial open flow _____ /10ths Water in _____ Inch
Open flow after tubing _____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

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

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

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

Apr 16, 1984
DATE

R.A. Lawther
DISTRICT WELL INSPECTOR



RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

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

MAR 28 1986

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

Permit Issued: 2-08-84

COMPANY Teckwell inc
P.O. Box 796
Morgantown W.Va. 26505

PERMIT NO 47-073-1809
FARM & WELL NO Plum 1
DIST. & COUNTY Mekin Pleasant

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 R.A. Lowther

DATE Mar 26, 1986

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.

[Signature]
Oil & Gas Division

April 16, 1986

DATE

ED
LOGY

MAR 5 8 1988

State of Ohio
Department of Health
100 East Broad Street
Columbus, Ohio 43260

30-08-88

HT-7-25-1807

Techno-M Inc

[Faint, illegible text, possibly a return address or recipient information]



R.A. Fisher
Nov 24, 1987

[Handwritten signature]


Violation No. ~~V-86-2039~~ ²⁰⁴¹

VI-27



Date: Mar 19, 1986

Well No: 1

API NO: 47 - 073 1809
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY

DIVISION OF OIL AND GAS

NOTICE OF VIOLATION

MAR 21 1986

Well TYPE: Oil ___ / Gas Liquid Injection ___ / Waste Disposal ___ /
Of "Gas" - Production Storage ___ / Deep ___ / Shallow

LOCATION: Elevation: 966 Watershed: Panther Run

^{4545°} District: McKim County: Pleasants Quadrangle: Ellenboro

WELL OPERATOR Teckwell INC DESIGNATED AGENT Darius Zehrbaech

Address P.O. Box 796 Address same

Morgantown W. Va. 26505

The above well is being posted this 19 day of Mar, 1986, for a violation of Code 22B-1-16.02 and/or Regulation _____, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to File well Record (Form IV 35) within 90 Days after completion of Drilling

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until Mar 26, 1986, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22B, Article 1.

Robert A. Lowther
Oil and Gas Inspector

Address Middlebourne

W. Va. 26149

Telephone: 758-4764

48950

IV-27
9-83

RECEIVED
MAY 21 1985



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: May 17, 1985
Well No: 11
API NO: 47-073 1809
State County Permit

506

OIL & GAS DIVISION
DEPT. OF MINES **Oil and Gas Division**
NOTICE OF VIOLATION

WELL TYPE: Oil ___ / Gas Liquid Injection ___ / Waste Disposal ___ /
Of "Gas" - Production / Storage ___ / Deep ___ / Shallow
LOCATION: Elevation: 966 Watershed: Big Panther Run
District: McKim County: Pleasants Quadrangle: Ellembrook
WELL OPERATOR Teckwell INC DESIGNATED AGENT Darus H Zehrbach Jr
Address P.O. Box 796 Address Same
Morgantown W.Va. 26505

The above well is being posted this 17 day of May, 1985, for a violation of Code 22-4-12B and/or Regulation 23.07, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to Re claim well site within 6 months after completion of drilling
Failure to buy oil & Gas Gathering Lines

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until May 24, 1985, to abate this violation. Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Robert A. Lowther
Oil and Gas Inspector
Address Middlebourne
W.Va. 26149

Telephone: 758-4764

48450



RECEIVED

IV-27
9-83

MAY 2 1 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION

DEPT. OF MINES
Oil and Gas Division

NOTICE OF VIOLATION

Date: May 17, 1985
Well No: 11
API No: 47-073-1809
State County Permit

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
Of "Gas" - Production / Storage / Deep / Shallow
LOCATION: Elevation: 110 / Watered: Deep
District: WV / County: Lincoln / Guarded: Yes
WELL OPERATOR: Lincoln Oil Co. / DESIGNATED AGENT: James H. ...
Address: 110 Box 790 / Lincoln, WV 26039

The above well is being posted this 17 day of May, 1985 for a violation of Code 22-4-17 and/or Regulation 22.07, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

*Failure to keep well logs
Failure to keep records of production
Failure to keep records of water*

A copy of this notice has been posted at the well site and sent by registered mail to the indicated well operator or his designated agent. You are hereby granted until May 24, 1985 to cure this violation. Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Robert A. ...
Oil and Gas Inspector
...
Address: ...
...
Telephone: 758-4144

506

FORM IV-30
9-83

RECEIVED

MAY 31 1985

OIL & GAS DIVISION DEPT. OF MINES

Date: May 29 1985
Operator's Well Number 1
API Well No.: No. 47 - 073 - 1809
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OFFICE OF OIL AND GAS
ORDER FOR FAILURE TO ABATE VIOLATION

WELL TYPE: Oil Gas Liquid Injection _____ Waste disposal _____
If "Gas" - Production Storage _____ Deep _____ Shallow _____
LOCATION: Elevation: 966 Watershed: Big Panther Run
District: McKinn County: Pleasant Quadrangle: Ellenboro
WELL OPERATOR: Teckwell, Inc.
Address: P.O. Box 796 Morgan town W.Va. 26505
DESIGNATED AGENT: Darius H. Zehbedek Jr
Address: Lane

Notice is hereby given that the undersigned authorized oil and gas inspector has made a special inspection of the above-named well on May 29, 1985.
The violation of Code 22-4-12B & 23.07, heretofore found to exist on May 17, 1985 by Form IV-27, "Notice of Violation" , Form IV-28, "Imminent Danger Order" _____ of that date has not been totally abated and it has been determined that no further extension of time should be permitted for the following reasons:

(USE REVERSE SIDE OF THIS ORDER IF NECESSARY)

*Failure to Reclaim well site within 6 months after completion of drilling
Failure to Bury oil & Gas gathering lines
No work has been done to abate these violations*

Therefore, in accordance with the provisions of Code 22-4-1g, the well operator is hereby ORDERED:

_____ To continue cessation of operations until the imminent danger is fully abated.

To cease further operations until the violation has been fully abated.

In accordance with Code 22-4-1h, a well operator or complaining coal operator, owner, or lessee may apply for review of this Order within 15 days of the date of this Order.

PURCHASER: _____
Address: _____

Robert A. Lowther
Oil and Gas Inspector
Address: Middlebourne
W.Va. 26149
Telephone: 758-4764

(Copies of this ORDER have been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.)

RECEIVED
 MAY 3 1 1985
 OIL & GAS DIVISION
 DEPT. OF MINES

FORM IV-30
 9-83

Date: May 29 1985
 Operator's Well Number: 41-073-1309
 API Well No.: _____
 State: _____ County: _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES OFFICE OF OIL AND GAS
ORDER FOR FAILURE TO ABATE VIOLATION

WELL TYPE: Oil Gas Liquid Injection Waste disposal

LOCATION: Production Storage Deep Shallow Underground

WELL OPERATOR: Richard H. ...
 Address: ...
 DISTRICT: ... COUNTY: ...

DESIGNATED AGENT: ...
 Address: ...

Notice is hereby given that the undersigned authorized oil and gas inspector has made a special inspection of the above-named well on May 29 1985 and has determined that the violation of Code 25-4-11b, "imminent danger order," of that code has not been totally abated and it has been determined that no further extension of time should be permitted for the following reasons:

(USE REVERSE SIDE OF THIS ORDER IF NECESSARY)

Failure to re-claim well site within 6 months after completion of drilling
Failure to bury old gas gathering lines
No work has been done to abate these violations

Therefore, in accordance with the provisions of Code 25-4-11, the well operator is hereby ORDERED to continue cessation of operations until the imminent danger is fully abated. To cease further operations until the violation has been fully abated.

In accordance with Code 25-4-11b, a well operator or complaining coal operator, owner, or lessee may apply for review of this Order within 15 days of the date of this Order.

PURCHASER: _____
 Address: _____
 Telephone: _____

Inspector: Robert A. ...
 Address: ...
 Telephone: ...

(Copies of this ORDER have been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.)

RECEIVED
JUL 26 1983

DEPARTMENT OF ENERGY
DIVISION OF OIL & GAS

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

NOTICE OF ABATEMENT

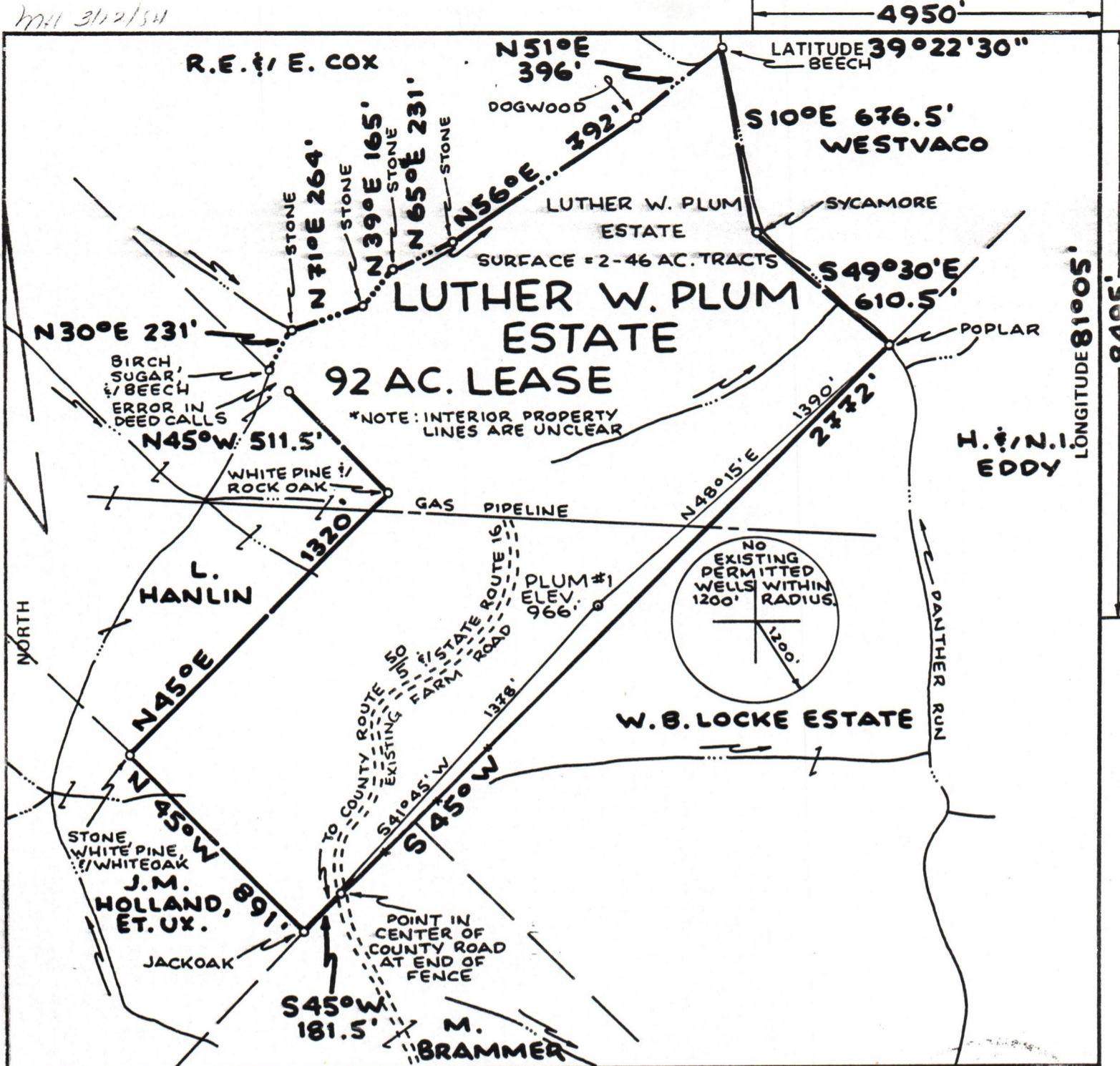
Date: July 24 1983
Operator: [Signature]
Well Number: 52-B-1-30
API Well No.: 47
State: WV
County: Boone
Permit: 1809

WELL TYPE: Oil Gas Liquid Injection Waste disposal
LOCATION: H "Gas" Production Storage Deep Shallow Underground
Elevation: [Blank]
District: Putnam
County: Boone
DESIGNATED AGENT: [Signature]
Address: [Signature]

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on July 24, 1983 at 5:30 P.M. The violation of Code 32-B-1-30, "Notice of Violation" Form IV-28, "Imminent Danger Order" of that date has been totally abated. If the stated violation was found by an imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS: Company has promised to abate violation for 52-B-1-30 in the very near future. Violation for 52-B-1-30 is abated.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.
Oil and Gas Inspector: [Signature]
Address: [Blank]
Telephone: 758-4164



FILE NO. _____
 DRAWING NO. _____
 SCALE **1" = 500'**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **ROAD INT. ELEV. 1034'**

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) *William F. Hesser*
 R.P.E. _____ L.L.S. **551**

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE **15 FEBRUARY**, 19 **84**
 OPERATOR'S WELL NO. **PLUM #1**
 API WELL NO. **47 - 073 - 1809**
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION **966'** WATER SHED **PANTHER RUN**
 DISTRICT **MC/KIM** COUNTY **PLEASANTS**
 QUADRANGLE **ELLENBORO 7 1/2' QUAD.**
 SURFACE OWNER **LUTHER W. PLUM ESTATE** ACREAGE **2-46 AC. TRACTS**
 OIL & GAS ROYALTY OWNER **LUTHER W. PLUM ESTATE** LEASE ACREAGE **92**
 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 **MARCELLUS SHALE** ESTIMATED DEPTH **5990'**
 WELL OPERATOR **TECHWELL, INC.** DESIGNATED AGENT **DARUS ZEHRBACH**
 ADDRESS **P.O. Box 796** ADDRESS **P.O. Box 796**
MORGANTOWN, W. VA. 26505 **MORGANTOWN, W. VA. 26505**