



1) Date: June 19, 19 84
 2) Operator's Well No. Barnhart S1-TW29
 3) API Well No. 47 - 73 - 1870
 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: 800 Watershed: Java Run (060)
 District: Union County: Pleasants Quadrangle: Raven Rock
- 6) WELL OPERATOR Techwell, Inc. 7) DESIGNATED AGENT Darus Zehrbach
 Address PO Box 796 Address same
Morgantown, WV 26505
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name 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, Gordon
- 12) Estimated depth of completed well, 3300 feet
 13) Approximate strata depths: Fresh, 190 feet; salt, 1465 feet.
 14) Approximate coal seam depths: NA Is coal being mined in the area? Yes No

RECEIVED
 JUL 12 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13				x	20			Kinds
Fresh water	11.75			x		220	220	CTS	NEAT
Coal									Sizes
Intermediate	8.625			x		1430	1430	CTS	
Production	4.5			x		3300	3300	Rule 15-01	Depths set
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-073-1870 Date September 6, 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 September 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>LD</u>	Plat: <u>MN</u>	Casing: <u>MN</u>	Fee: <u>1005</u>
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[Signature]
 Administrator, Office of Oil and Gas

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

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

File



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS

OFFICE USE ONLY

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

1) LOCATION: District: Union; Elevation: 800; Well No.: Java Run; County: Pleasants; Underground: X; Shallow: X

2) WELL OPERATOR: Name: Techwell, Inc.; Address: PO Box 796, Morgantown, WV 26502

3) DESIGNATED AGENT: Name: Darin Zehrbach; Address: same

4) DRILLING CONTRACTOR: Name: Job Lowther; Address: General Delivery, Middlebourne, WV 26149; Phone: 758-4784

5) PROPOSED WELL WORK: Drift: X; Depth: 190; Purpose: Replace old formation; Other physical change: none

6) GEOLOGICAL TARGET FORMATION: Name: Gordon; Depth: 3300

7) APPROXIMATE STRATIGRAPHIC TEST: Name: NA; Depth: 190

8) APPROXIMATE COAL SEAM DEPTHS: Name: NA; Depth: 190

9) CASING AND TUBING PROGRAM: Details in table below

TUBING TYPE	Size	Grade	Specifications		Mud Weight Intervals		Cement	Packers
			Per Ft.	Per Ft.	Per Ft. in Well	Per Ft. in Well		
Conductor	13		X		20			
Flow water	11.75		X		220	220	CTS	
Casing	8.825		X		1430	1430	CTS	
Production	4.5		X		3300	3300	Rule 15-07	

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:	Board	Asst.	Chief	Casing	Tool

1) Date: June 19, 19 84
2) Operator's Well No. Barnhart S1-TW29
3) API Well No. 47 - 73 - 1870
State County Permi

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 Mrs. Hope L. Barnhart

Address Rt. 2, Box 391

St. Marys, WV 26170

(ii) Name _____

Address _____

(iii) Name _____

Address _____

5(i) COAL OPERATOR NA

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. on file 073-1798
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

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

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

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

Darius A Zepelach
this 20th day of September, 1983.

My commission expires March 24, 1991.

Lee Anne Smouse
Notary Public, Mason County,
State of West Virginia

WELL OPERATOR Techwell, Inc.

By [Signature]
Its Designated Agent

Address P.O. Box 796
Morgantown, WV 26505
Telephone 304/291-3843

RECEIVED

JUL 12 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

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

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

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

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

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

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
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1988
GAS DIVISION
OFFICE OF THE MINER



#2293

IV-9
(Rev 8-81)

Field Review

DATE 31 MAY, 1984

WELL NO. #S1

State of West Virginia

API NO. 47 - 073 - 1870

Department of Mines

Oil and Gas Division

Construction & Reclamation Plan

COMPANY NAME TECHWELL, INC.

DESIGNATED AGENT DARUS ZEHRBACH

ADDRESS P.O. BOX 796

ADDRESS P.O. BOX 796

MORGANTOWN, W.VA. 26505

MORGANTOWN, W.VA. 26505

Telephone (304) 291-3843

Telephone (304) 291-3843

LANDOWNER H.L. BARNHART

SOIL CONS. DISTRICT UPPER OHIO

Revegetation to be carried out by TECHWELL, INC. (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan: 6/28/84 (Date)

Benjamin R. Mason
(SCD Agent)

RECEIVED

JUL 12 1984

OIL & GAS DIVISION
DEPT. OF MIN

ACCESS ROAD

Structure (2) 20" CULVERTS (A)
Spacing _____
Page Ref. Manual 2:7

Structure DIVERSION DITCH (1)
Material SOIL
Page Ref. Manual 2:12

Structure CROSS DRAIN (B)
Spacing 45' TO 400' (AS NEEDED)
Page Ref. Manual 2:1

Structure SEDIMENT BARRIER (2)
Material HAY BALES ?/ LOGS
Page Ref. Manual 2:9

Structure (HAY BALES ?/ LOGS) SEDIMENT BARRIER (C)
Spacing SAME AS CROSS DRAIN
Page Ref. Manual 2:9

(D) Structure 16" CULVERT (X)
Material _____
Page Ref. Manual 2:7

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

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

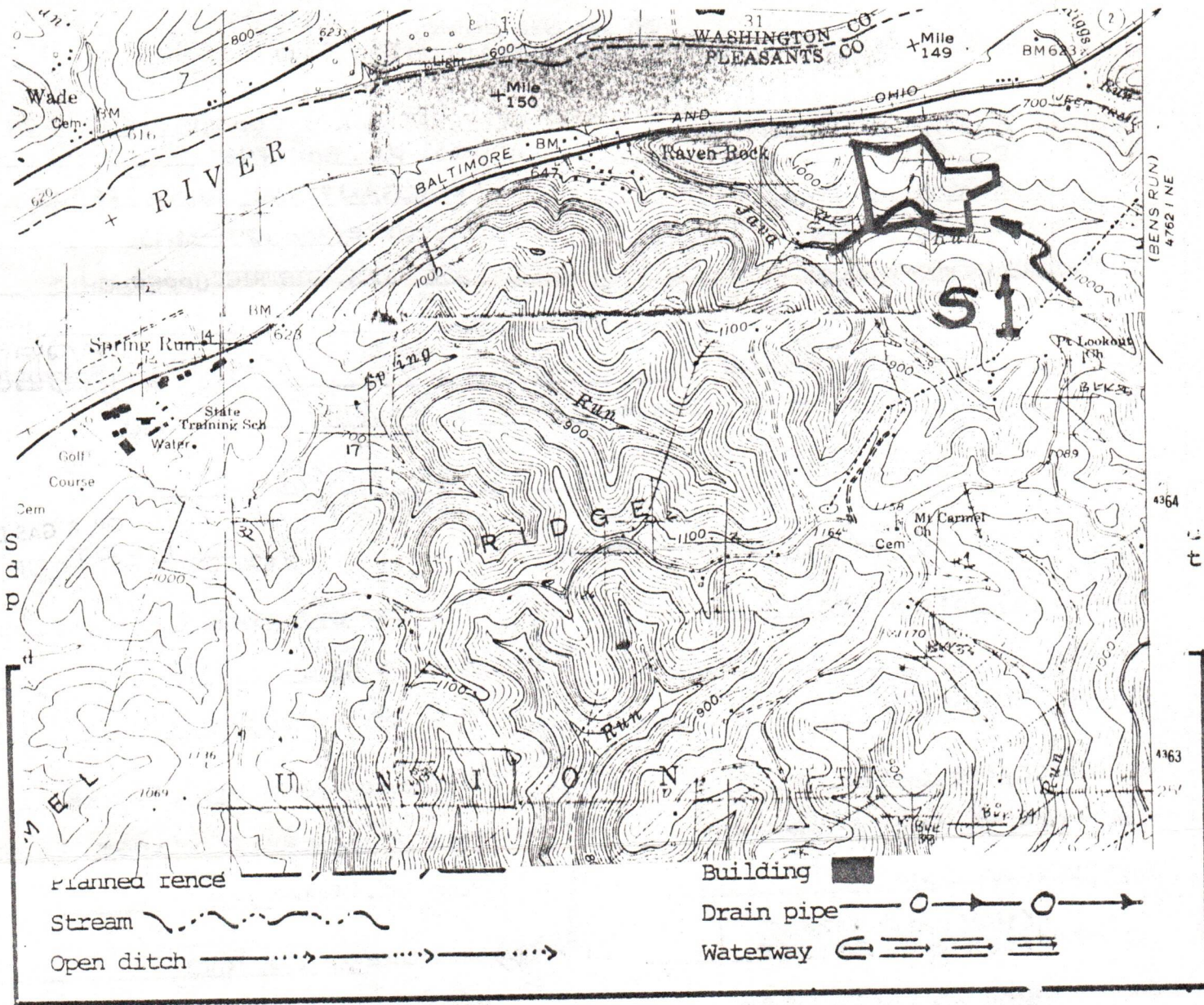
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

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

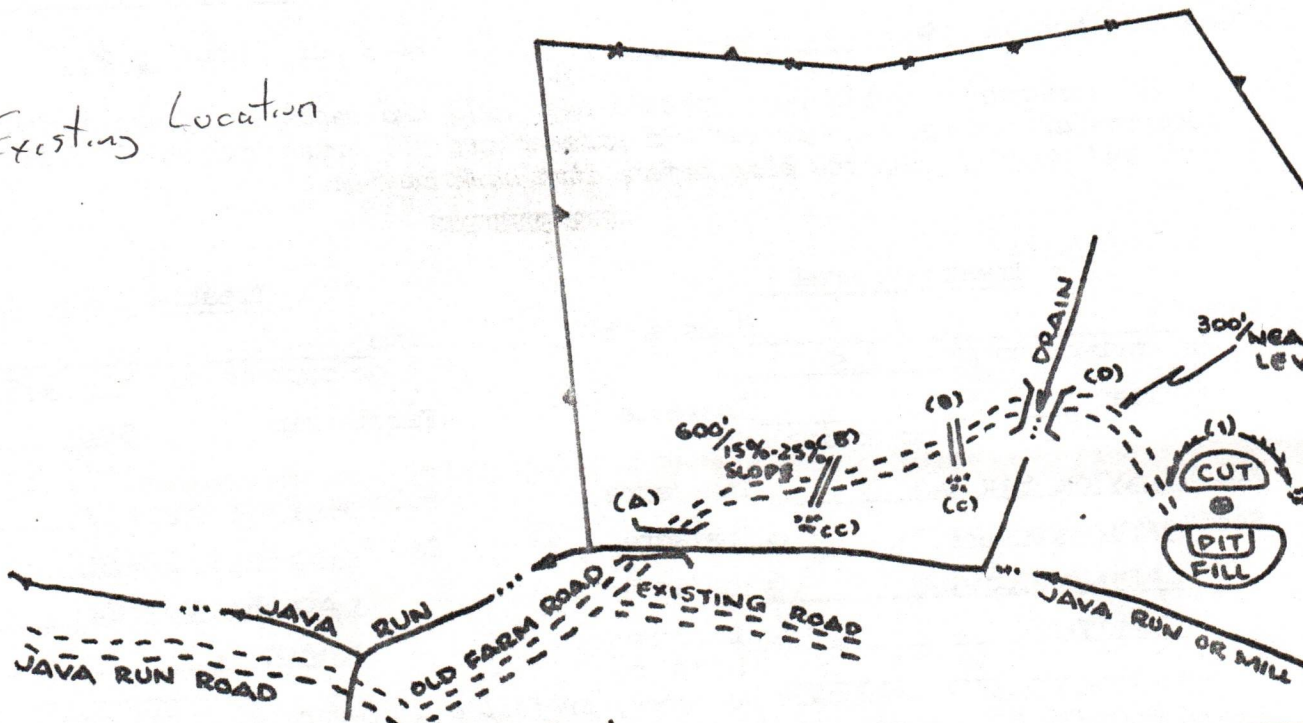
PLAN PREPARED BY WILLIAM R. MOSSOR, L.L.S. 551
ADDRESS 106 NORTH SPRING STREET
HARRISVILLE, W.VA. 26362
PHONE NO. (304) 643-4572

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE RAVEN ROCK

LEGEND
WELL SITE ⊕ ACCESS ROAD —



Existing Location



- Comments:
1. LENGTH OF ACCESS ROAD 300'
 2. BRUSH TO BE CUT AND BURNED AT SITE.
 3. TREES TO BE CUT AND STACKED AT SITE.
 4. ACCESS ROAD TO RUN ALONG OLD FARM ROAD.
 5. OLD FARM ROAD TO BE UPGRADED.
 6. LOCATION LOCATED APPROXIMATELY 1500' SOUTH OF STATE ROUTE 31

P 534 377 652

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

Sent to	E. P. McCluskey
Street and No.	Rt. 1
P.O., State and ZIP Code	H. May, W. 26170
Postage	\$.37
Certified Fee	.75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	.60
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 1.72
Postmark or Date	JUN 20 1984 USPO

P 534 377 655

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

Sent to	L. Giboney
Street and No.	Rt. 2
P.O., State and ZIP Code	H. May, W. 26170
Postage	\$.37
Certified Fee	.75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	.60
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 1.72
Postmark or Date	JUN 20 1984 USPO

RECEIVED JUN 8 1984

OIL & GAS DIVISION P 534 377 653
DEPT. OF MINES

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

Sent to	Mrs. Hope Larrabee
Street and No.	Rt. 2 Box 391
P.O., State and ZIP Code	H. May, W. 26170
Postage	\$.37
Certified Fee	.75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	.60
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 1.72
Postmark or Date	JUN 20 1984 USPO

P 534 377 654

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

Sent to	L. W. Plum Estate
Street and No.	Rt. 2 Box 117
P.O., State and ZIP Code	H. May, W. 26170
Postage	\$.37
Certified Fee	.75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	.60
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 1.72
Postmark or Date	JUN 20 1984 USPO

MAR 2 8 1986



State of West Virginia DEPARTMENT OF ENERGY Oil and Gas Division

Date March 1, 1986 Operator's Well No. Barnhart S1 Farm Barnhart API No. 47 - 73 - 1870

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: 800 Watershed Java Run District: Union County Pleasants Quadrangle Raven Rock

COMPANY Techwell, Inc. ADDRESS P.O. Box 796 Morgantown, WV DESIGNATED AGENT Darus H Zehrbach ADDRESS same SURFACE OWNER H.L. Barnhart ADDRESS Rt 2 Box 391 St. Marys, WV MINERAL RIGHTS OWNER Techwell, Inc ADDRESS P.O. Box 796 Morgantown, WV OIL AND GAS INSPECTOR FOR THIS WORK Bob Lowther ADDRESS Middlebourne, WV PERMIT ISSUED 9/6/84 DRILLING COMMENCED 9/18/84 DRILLING COMPLETED 9/21/84 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

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

GEOLOGICAL TARGET FORMATION Gordon Depth 2900 feet Rotary x / Cable Tools Water strata depth: Fresh feet; Salt feet Coal seam depths: 1110 & 1190 Is coal being mined in the area? x

OPEN FLOW DATA Producing formation Squaw Pay zone depth 1741-1614 feet Gas: Initial open flow 80 Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 16 Mcf/d Oil: Final open flow 0 Bbl/d Time of open flow between initial and final tests 24 hours Static rock pressure 720 psig (surface measurement) after 48 hours shut in (If applicable due to multiple completion--)

Second producing formation Pay zone depth 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)

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

800 Barrels of gelled water and sand with 375,000 SCF N2 assist
 1741-1736
 1662-1656
 1620-1614

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Overburden			0	20	
Shale & Sandstone			20	450	
Shale & Siltstone			450	500	
Shale & Sandstone			500	800	
Siltstone			800	820	
Shale			820	910	
Siltstone			910	980	
Sandstone			980	1050	
Shale & Siltstone			1050	1110	
Coal & Shale			1110	1130	
Sandstone & Shale			1130	1190	
Coal & Shale			1190	1200	Kittanning ?
Shale			1200	1240	
Sandstone			1240	1280	
Shale & Siltstone			1280	1340	
Sandstone			1340	1400	
Shale			1400	1440	
Limestone			1440	1520	Big Lime
Sandstone			1520	1551	
Limestone			1551	1570	
Sandstone			1570	1720	Big Injun
Shale			1720	2000	
Siltstone & Shale			2000	2160	
Shale			2160	2320	
Sandstone			2320	2350	30 Foot
Shale			2350	2470	
Shale & Siltstone			2470	2550	
Shale			2550	2800	
Shale & Siltstone			2800	2902	
Total Depth				2902	

(Attach separate sheets as necessary)

Techwell, Inc.
 Well Operator
 By: E. Ray Garton E. Ray Garton
 Date: March 1, 1986

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 all, encountered in the drilling of a well."

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

RECEIVED

SEP 21 1984

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

Permit No. 073-1870

Oil or Gas Well _____
(KIND)

Company Teekwell INC
Address Morgantown W. Va.
Farm Bainhart
Well No. S1 Tw 29
District union County pleasant
Drilling commenced 9-18-84
Drilling completed _____ Total depth 255

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer _____
16			
13			
10 <u>11 3/4</u>	<u>233</u>	<u>233</u>	Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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 100 feet _____ feet
Salt water _____ feet _____ feet

CASING CEMENTED 11 3/4 SIZE 233 No. FT. 9-18-84 Date
NAME OF SERVICE COMPANY Nowaco
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____
Contractor C T Drilling Rig 1
Remarks: _____

Sept 19 1984
DATE

R. A. Lowther
DISTRICT WELL INSPECTOR

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

RECEIVED

SEP 25 1984

INSPECTOR'S WELL REPORT

Permit No. 073-1870

OIL & GAS DIVISION
(KIND)

Company Teckwell, INC
 Address Morgantown W. Va.
 Farm Bainhart
 Well No. S1-TW 29
 District Union County Pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth 1585
 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 267 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 3/4	1224	1224	
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 5/8 SIZE 1224 No. FT 9-20-84 Date
 NAME OF SERVICE COMPANY Nourseco
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Cemented well 320 sts neat cement

Sept 21, 1984
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR



RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

MAR 28 1986

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

Permit Issued: 9-06-84

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

PERMIT NO 47-073-1870
FARM & WELL NO Barnhart S1
DIST. & COUNTY Union 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 Strength		
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.

T. H. ...
Oil & Gas Division

April 16, 1986
DATE

RECEIVED
DEPARTMENT OF
OIL AND
GAS



STATE OF TEXAS
COUNTY OF [unclear]
[unclear]
[unclear]

MIR 2 2 1981

117-5-1170
[unclear]
[unclear]

Trinidad Inc
[unclear]
[unclear]

[Faint, mostly illegible text, possibly a contract or legal document, covering the middle section of the page.]

117-5-1170
[unclear]

[Handwritten signature or initials]

11 15 1981

Violation No. V ²⁰⁴⁴ ~~86-2038~~



VI-27 RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

Date: Mar 19, 1986
Well No: SI-TW 29
API NO: 47-073-1870
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: 800 Watershed: Fairport Ran Raven Rock
⁴⁸⁹⁵⁰ District: Union County: Pleasants Quadrangle: Raven Rock
WELL OPERATOR Teckwell INC DESIGNATED AGENT Darius Zehrbaech
Address P.O. Box 796 Address Saml
Morgantown W.Va.

The above well is being posted this 19 day of Mar, 1986, for a violation of Code 22B-1-1602 and/or Regulation _____, set forth in detail as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

Failure to File well Record (Form W 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



Violation No. V & 28-2008

Date: March 11, 1988
Well No. 21-TW 22
APR 1988 - 073-1870
BARGE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
NOTICE OF VIOLATION

MAR 21 1988

Well Type: Oil Gas Liquid Injection Waste Disposal
OF GAS: Production Storage Deep Shallow
LOCATION: Elevation: 800
District: Wayne County: Pleasants
WELL OPERATOR: Tackwell Inc
Address: P.O. Box 795
Morgantown, W.V.
The above well is being posted this 11 day of March, 1988 for a
violation of Code 28B-1-1000 and/or regulation as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)
Failure to file well record (Form W 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 the designated agent.
You are hereby granted until March 11, 1988, to abate this violation.
Failure to abate the violation may result in action by the Department under
Code 28B, Article 1.

Robert A. Fowler
Oil and Gas Inspector

Address: Michaelson
W. Va. 26149

Telephone: 758-4764

48950



IV-27
9-83

RECEIVED

MAY 21 1985

OIL & GAS DIVISION

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: May 17, 1985
Well No: 51
API NO: 47-073 1870
State County Permit

510

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: 800 Watershed: Fishpot Run
District: Union County: Pleasants Quadrangle: Raven Rock
WELL OPERATOR Techwell INC DESIGNATED AGENT Darius 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 22-4-2B 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 Bury 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

48420



RECEIVED
MAY 2 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: 151
Alt. No: 41-073 1875
State County Permit

WELL TYPE: Oil & Gas Liquid Injection Waste Disposal
Of "Gas" - Production Deep Shallow
LOCATION: Elevation: 800 Watershed: Farmington River
District: Lincoln County: Lincoln Quadrangle: Forest Hill
WELL OPERATOR: Lincoln Oil Co. DESIGNATED AGENT: Lincoln Oil Co.
Address: P.O. Box 110 Address: Lincoln

The above well is being posted this 17 day of May, 1985, for violation of Code 22-4-17 and/or Regulation 22-4-17 set forth in Article 22, Chapter 4, Title 22, Code of West Virginia as follows:

(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)
*Failure to Reclaim well site within 6 months
after completion of drilling
Failure to bury well top within 6 months*

A copy of this notice has been posted at the well site and sent by certified registered mail to the indicated well operator or his designated agent. You are hereby granted until May 31, 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. ...
Oil and Gas Inspector
Address: Lincoln
21129
Telephone: 758-4754

Date: May 29 1985
Operator's Well Number: 51
API Well No.: No. 47 - 073 - 1870
State County Permit

510

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 _____ /
Underground _____
LOCATION: If "Gas" - Production Storage _____ / Deep _____ / Shallow
Elevation: 800 Watershed: Feekwell Run Java Run
District: Union County: Pleasants Quadrangle: Raven Rock
WELL OPERATOR: Teekwell Inc
Address: P.O. Box 796 Morgantown W.Va. 26505
DESIGNATED AGENT: Darius H Zehrbach Jr
Address: Same

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, 19 85.
The violation of Code 22-4-12b 23.07, heretofore found to exist on May 17, 19 85 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 Re claim well site within 6 months
after completion of drilling
Failure to Bury oil & Gas gathering lines*

RECEIVED
MAY 31 1985
OIL & GAS DIVISION
DEPT. OF MINES

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: _____
Telephone: _____
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.)

Date: May 21 1982
Operator's Well Number: 81
APL Well No.: 073-1870
State: _____ County: _____ Permit: _____

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

WELL TYPE: Gas Oil Liquid Injection Waste Disposal
LOCATION: Production Storage Underground
Elevation: 800
District: Lincoln
WELL OPERATOR: Rockwell, Inc.
Address: P.O. Box 775
DESIGNATED AGENT: James H. [unclear]
Address: [unclear]

Notice is hereby given that the designated authorized oil and gas inspector has made a special inspection of the above-named well on May 17 1982 and has determined that no further extension of time should be permitted for the following reasons:
The violation of Code _____, hereafter found to exist on May 17 1982 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 Pump out Gas Gathering Lines*

RECEIVED

MAY 31 1982

DEPT. OF MINES
OIL & GAS DIVISION

In accordance with Code 22-4-1b, a well operator in compliance coal operator, owner, or lessee may apply for review of this Order within 15 days of the date of this Order.
To cease further operations until the violation has been fully abated.
To continue cessation of operations until the imminent danger is fully abated.
Therefore, in accordance with the provisions of Code 22-4-1g, the well operator is hereby ORDERED:

PURCHASER: _____
Address: _____
Telephone: _____
Inspector: Robert A. [unclear]
Address: 1000 [unclear]
Telephone: 738-4104

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 8 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

Date: July 3 85
Operator's Well Number: 51
API Well No.: 47 - 073 - 1870
State County Permit

510

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

NOTICE OF ABATEMENT

WELL TYPE: Oil _____ / Gas Liquid Injection _____ / Waste disposal _____
If "Gas" - Production Storage _____ / Deep _____ / Shallow
LOCATION: Elevation: 800 Watershed: Love Run
District: Union County: Pleasants Quadrangle: Raven Rock
WELL OPERATOR Leckwell INC DESIGNATED AGENT Darius H Zehrbach
Address P.O. Box 796 Address _____
Morgantown W.Va.

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on July 3, 19 85.
The violation of Code 22-4-12B 23.07 heretofore found to exist on May 17, 19 85, by Form IV-27, "Notice of Violation" / Form IV-28, "Imminent Danger Order" of that date has been totally abated. If the abated 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
Violations Have been abated

D-164

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.

R.A. Luther
Oil and Gas Inspector
Address Middlebourne
W.Va.
Telephone 758-4764

RECEIVED
JUL 8 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

Date: July 3 85
Operator's Well Number: 21
API Well No.: 47
State: West Virginia
County: Putnam
Permit: 1870

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

NOTICE OF ABATEMENT

WELL TYPE: Oil

Gas Liquid Injection Waste disposal

LOCATION: Elevation: 800

Production Storage Underground Deep Shallow

WELL OPERATOR: Jackson, J.C.

District: Putnam
County: Putnam
Quadrangle: Putnam
DESIGNATED AGENT: James H. Mitchell

Address: P.O. Box 111

Address: _____

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on July 3, 1985. The violation of Code 20-2-12b, 23.07, 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: Violations have been abated

Violations have been abated

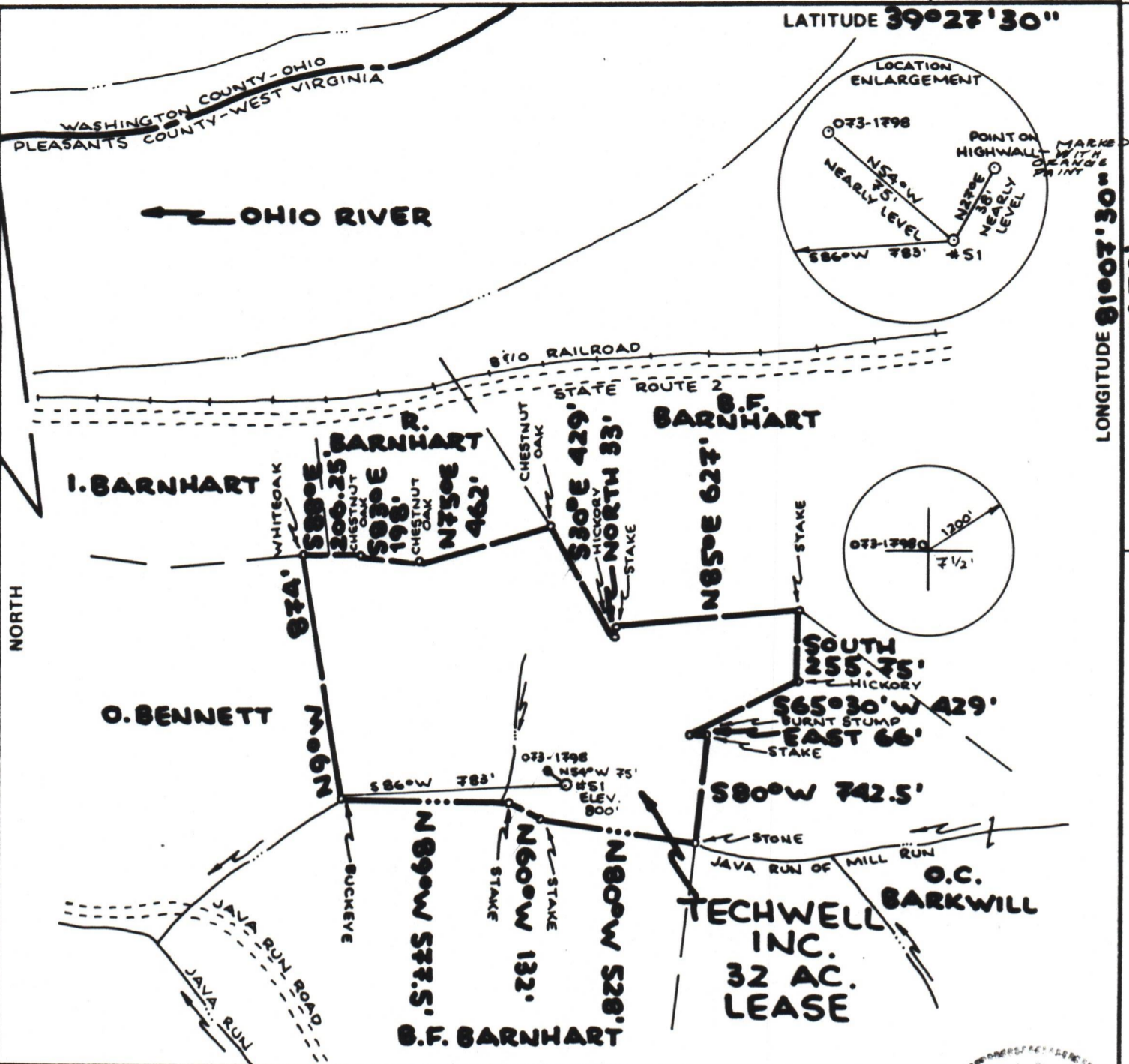
A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Oil and Gas Inspector: R.A. [Signature]
Address: [Signature]
Telephone: 758-4704

2720'

LATITUDE 39°27'30"

LONGITUDE 81°03'30" 7670'



FILE NO. _____
 DRAWING NO. _____
 SCALE **1"=500**
 MINIMUM DEGREE OF ACCURACY **1:200**
 PROVEN SOURCE OF ELEVATION **ROAD INT. ELEV. 1089'**

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 A. Harrell*
 R.P.E. _____ L.L.S. **551**



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

DATE **31 MAY**, 19 **84**
 OPERATOR'S WELL NO. **551**
 API WELL NO. _____
47 - **073** - **1870**
 STATE COUNTY PERMIT



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION **800'** WATER SHED **JAVA RUN**
 DISTRICT **UNION** COUNTY **PLEASANTS**
 QUADRANGLE **RAVEN ROCK 7 1/2' QUAD.**
 SURFACE OWNER **H.L. BARNHART** ACREAGE **32**
 OIL & GAS ROYALTY OWNER **TECHWELL, INC.** LEASE ACREAGE **32**
 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 **GORDON** ESTIMATED DEPTH **3300'**
 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**