

Jamie 5/30/89

Latitude 39° 25'

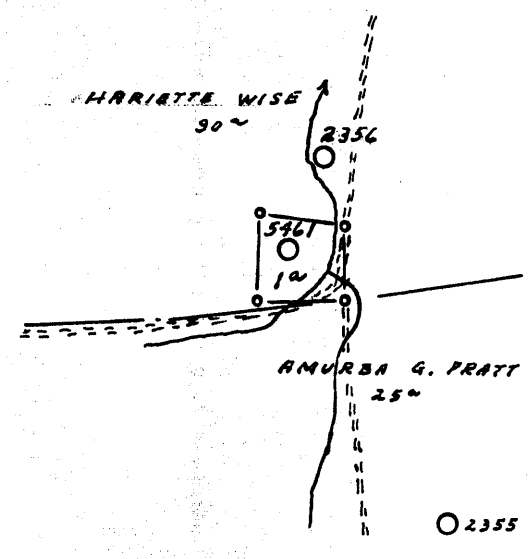
900

7.5

80° 47' 30"

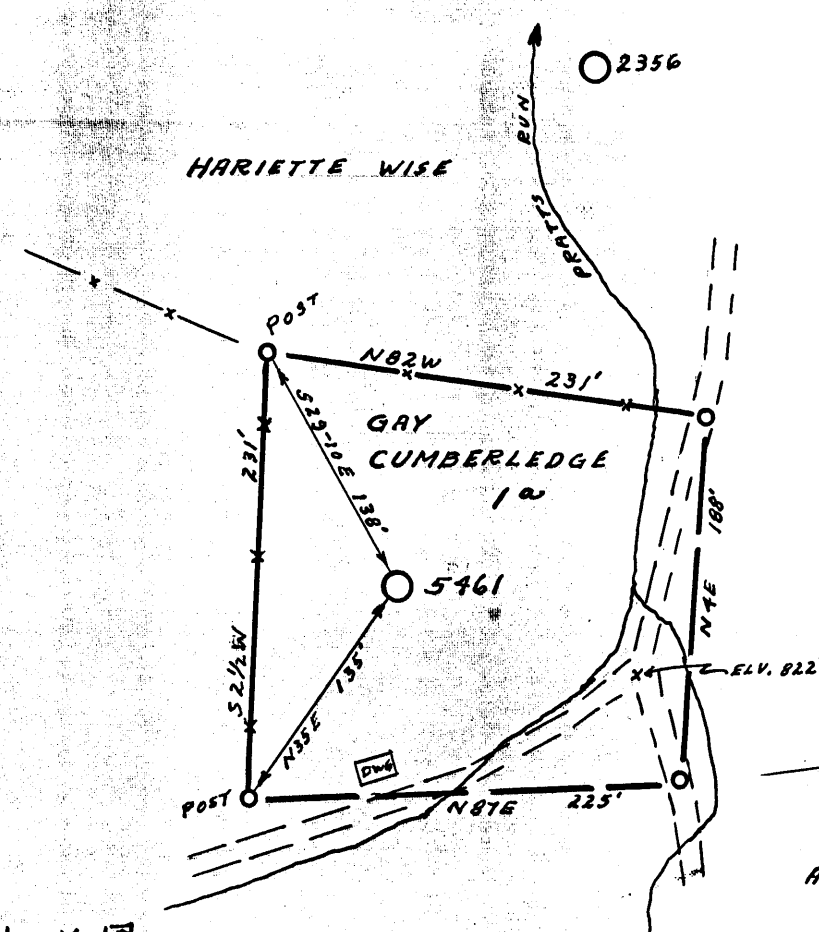
Longitude 80° 45'

11550



SCALE 1" = 500'

SCALE 1" = 100'



- Rework
- Fracture...
  - Redrill...
  - New Location...
  - Drill Deeper...
  - Abandonment...

Source of Elevation ROAD FORK ELV. 822' USGS

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200

Company: Equitronics Inc. 4468

Address: 4955 STEUBENVILLE PIKE, PITTS, PA

Farm: GAY CUMBERLEDGE

Tract: \_\_\_\_\_ Acres ONE Lease No. 26155

Well (Farm) No. \_\_\_\_\_ Serial No. 5461

Elevation (Spirit Level): 832'

Quadrangle: WEST UNION NE 42 15 / Shirley 7.5 47-095-

County: TYLER District: McELROY 5

Engineer: R. D. McMillan

Engineer's Registration No. 105 L.L.S.

File No. 222/12 Drawing No. \_\_\_\_\_

Date: 5-9-72 Scale: 1" = 100'

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

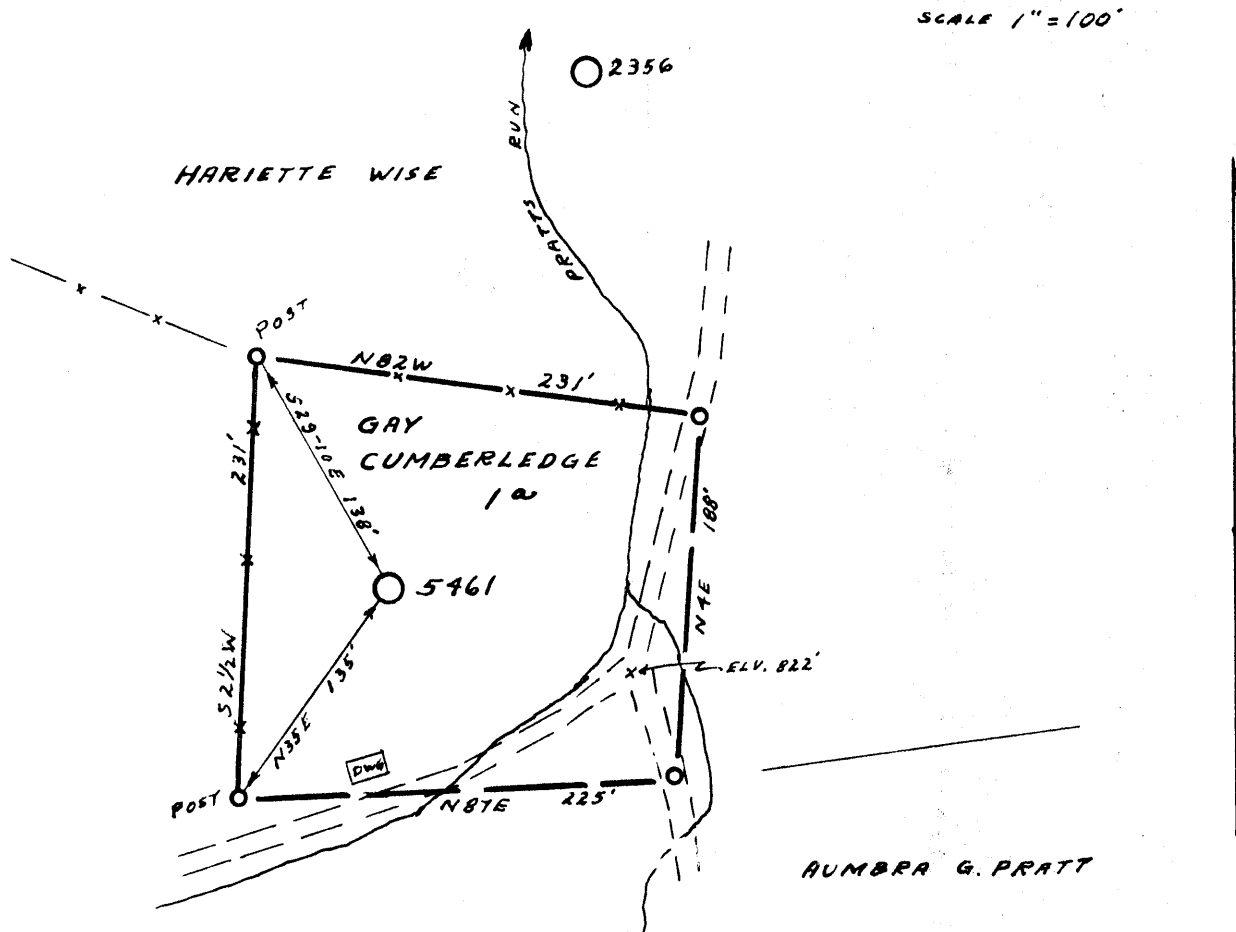
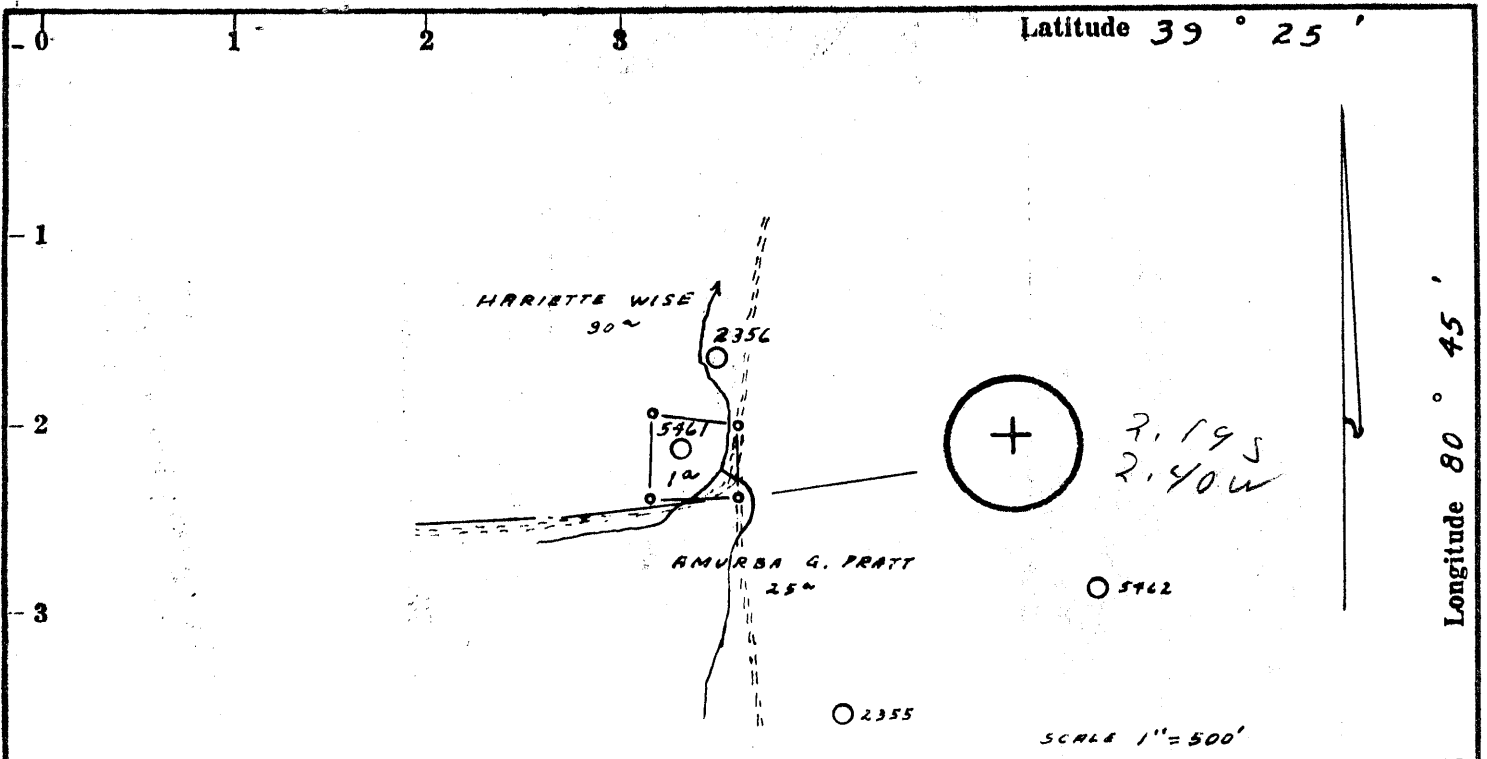
607 WELL LOCATION MAP  
1336 FILE NO. Dyl-438 Red  
REWORK

Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

JUN 16 1989

— Denotes one inch spaces on border line of original tracing.

OWWD 9-0 Wilbur (092)



- Fracture
- Redrill
- New Location
- Drill Deeper
- Abandonment

Source of Elevation ROAD ELEV. 822' USGS

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200

Company EQUITABLE GAS CO. W.VA. DIV.

Address PITTSBURGH, PA. 15219

Farm GAY CUMBERLEDGE

Tract \_\_\_\_\_ Acres ONE Lease No. 26155

Well (Farm) No. \_\_\_\_\_ Serial No. 5461

Elevation (Spirit Level) 832'

Quadrangle WEST UNION NE 42 EC

County TYLER District McELROY

Engineer R. D. McWilliams

Engineer's Registration No. 105 L.L.S.

File No. 222/12 Drawing No. \_\_\_\_\_

Date 5-9-72 Scale 1" = 100'

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

WELL LOCATION MAP  
FILE NO. Dyl-438 Red

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

JAN 11 1990  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: CUMBERLEDGE, GAY Operator Well No.: 5461

LOCATION: Elevation: 832.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER  
Latitude: 11550 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 900 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EQUITRANS, INC.  
4955 STEUBENVILLE PIKE  
PITTSBURGH, PA 15205-4955

Agent: GARY A. HOY, DIVISION MGR.

Inspector: GLEN P. ROBINSON  
Permit Issued: 06/08/89  
Well work Commenced: 06/15/89  
Well work Completed: 09/25/89

Verbal Plugging  
Permission granted on: \_\_\_\_\_

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 1950

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 10"                  | 299'             | 299'         | To Surface             |
| 8 5/8"               | 901'             | 901'         | To Surface             |
| 5 1/2"               | 1759'            | 1759'        | To 700'                |
| 3 1/2"               | 1934'            | 1934'        | 83 sx                  |

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1797  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EQUITRANS, INC. \_\_\_\_\_

By: *[Signature]* PRESIDENT  
Date: \_\_\_\_\_

JAN 16 1990

095-438 W

| <u>FORMATION</u> | <u>TOP FEET</u> | <u>BOTTOM FEET</u> | <u>REMARKS</u> |
|------------------|-----------------|--------------------|----------------|
| Pittsburgh Coal  | 373             | 390                |                |
| Gas Sand         | 972             | 1024               |                |
| Salt Sand        | 1102            | 1138               |                |
| Maxton           | 1562            | 1646               |                |
| Little Lime      | 1666            | 1682               |                |
| Big Lime         | 1698            | 1752               |                |
| Big Injun        | 1764            | 1922               |                |
| TD:              |                 | 1950               |                |

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JAN 11 1990

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Perforated Interval:  
1797' to 1812'

1968



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle West Union NE 4.3

Permit No. TYL-438-Red

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable XX Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage XX \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company Equitable Gas 15219  
Address 420 Blvd. of the Allies, Pgh., Pa.  
Farm Gay Cumberledge Acres 1  
Location (waters) Pratts Run  
Well No. 5461 Elev. 832  
District McElory County Tyler  
The surface of tract is owned in fee by Gay Cumberledge  
Address Alma, W. Va. 26320  
Mineral rights are owned by Same as Surface  
Address \_\_\_\_\_  
Drilling Commenced 7-11-72  
Drilling Completed 10-12-72  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.  
Well treatment details:

| Casing and Tubing   | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
|---------------------|------------------|--------------|-------------------------------|
| Size 20-16          |                  |              |                               |
| Cond. <u>X3-10"</u> | <u>299</u>       | <u>299</u>   | <u>180 Sks.</u>               |
| <u>9 5/8</u>        |                  |              | <u>299 to 0</u>               |
| <u>8 5/8</u>        | <u>901</u>       | <u>901</u>   | <u>470 Sks. 901 to 0</u>      |
| <u>7</u>            |                  | <u>*</u>     |                               |
| <u>5 1/2</u>        | <u>1759</u>      | <u>1759</u>  | <u>2 50 sks.</u>              |
| <u>4 1/2</u>        |                  |              | <u>1759 to 700,</u>           |
| <u>3</u>            |                  |              | <u>gel 700 to 0</u>           |
| <u>2</u>            |                  |              |                               |
| Liners Used         |                  |              |                               |

Attach copy of cementing record.  
\* Old 7-in. hole from 1658 to 1701

Coal was encountered at \_\_\_\_\_ feet \_\_\_\_\_ inches  
Fresh water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet  
Producing Sand Big Inj. storage Depth \_\_\_\_\_

| Formation             | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks                             |
|-----------------------|-------|--------------|----------|-------------|-------------------|---------------------------------------|
| Sand                  |       |              | 373      | 390         |                   | Gamma Ray Survey from surface to 2602 |
| Pittsburgh Coal       |       |              | 460      | 464         |                   |                                       |
| Sand                  |       |              | 468      | 490         |                   |                                       |
| Sand                  |       |              | 550      | 576         |                   |                                       |
| Murphy Sand           |       |              | 716      | 734         |                   |                                       |
| Gas Sand              |       |              | 972      | 1024        |                   |                                       |
| Salt Sand             |       |              | 1102     | 1138        |                   |                                       |
| Salt Sand             |       |              | 1213     | 1375        |                   |                                       |
| Salt Sand             |       |              | 1440     | 1470        |                   |                                       |
| Maxton Sand           |       |              | 1562     | 1646        |                   |                                       |
| Little Lime           |       |              | 1666     | 1682        |                   |                                       |
| Big Lime              |       |              | 1698     | 1752        |                   |                                       |
| Big Injun             |       |              | 1764     | 1922        |                   |                                       |
| Squaw Sand            |       |              | 1981     | 1990        |                   |                                       |
| Weir Sand             |       |              | 2072     | 2164        |                   |                                       |
| Gantz Sand            |       |              | 2270     | 2284        |                   |                                       |
| Gordon Sand           |       |              | 2494     | 2537        |                   |                                       |
| Redrilled to          |       |              |          | 2602        |                   |                                       |
| Cement to             |       |              |          | 1785        |                   |                                       |
| Completed Total Depth |       |              |          | 1785        |                   |                                       |

(over)

\* Indicates Electric Log tops in the remarks section.

1

rework

095-0438

Issued 6/8/89 Expires 6/8/91

FORM WW-2B

Page 1 of 1

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Equitrans, Inc. 16160, 5, 606
- 2) Operator's Well Number: 5461 3) Elevation: \_\_\_\_\_
- 4) Well type: (a) Oil \_\_\_ / or Gas \_\_\_ /  
(b) If Gas: Production \_\_\_ / Underground Storage X /  
Deep \_\_\_ / Shallow \_\_\_ /
- 5) Proposed Target Formation(s): Big Injun 301
- 6) Proposed Total Depth: 1930 feet Current T.D. = 1785
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: \_\_\_\_\_
- 9) Approximate coal seam depths: 460-464
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /
- 11) Proposed Well Work: Drill approximately 150' of cemented well bore and install 1930' of 3 1/2" tubing.
- 12)

CASING AND TUBING PROGRAM

| TYPE         | SPECIFICATIONS |          |                | FOOTAGE INTERVALS |              | CEMENT                   |
|--------------|----------------|----------|----------------|-------------------|--------------|--------------------------|
|              | Size           | Grade    | Weight per ft. | For drilling      | Left in well |                          |
| Conductor    | 10"            | Existing |                | 299'              | 299'         | 180 SKS<br>To surface    |
| Fresh Water  |                |          |                |                   |              |                          |
| Coal         | 8 1/2"         | Existing |                | 910'              | 901'         | 470 SKS<br>To surface    |
| Intermediate |                |          |                |                   |              |                          |
| Production   | 5 1/2"         | Existing |                | 1759'             | 1759'        | 250 SKS 700'<br>To 700'  |
| Tubing       | 3 1/2"         |          |                | 1930'             | 1930'        | 385 RB-11-1<br>100 Sacks |
| Liners       |                |          |                |                   |              |                          |

0764

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PACKERS : Kind N/A  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 503 blanket sure  Agent

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MAY 22 1989

Page 1 of 2  
Form WW2-A  
(09/87)  
File Copy

Operator's well number  
DIVISION OF OIL & GAS 5461  
DEPARTMENT OF ENERGY Well No: 47 - 095 - 0438 - Revised  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Gay Cumberledge  
Address Alma, WV 26320
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name Gay Cumberledge  
Address Alma, WV 26320
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Glen P. Robinson  
Address Rt. 1, #6 Mt. Pleasant Est.  
Mineralwells, WV 26150  
Telephone (304)-489-9162

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_ on the above named parties, by:

- \_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Equitrans, Inc.  
By: [Signature]  
Its: President  
Address 4955 Steubenville Pike  
Pittsburgh, PA 15205  
Telephone (412) 788-6066

Subscribed and sworn before me this 28th day of April, 1989

My commission expires \_\_\_\_\_

NOTARIAL SEAL  
ARLENE M. CUBAKOVIC, NOTARY PUBLIC  
ROBINSON TWP., ALLEGHENY COUNTY  
MY COMMISSION EXPIRES SEPT. 7, 1992

[Signature] Notary Public