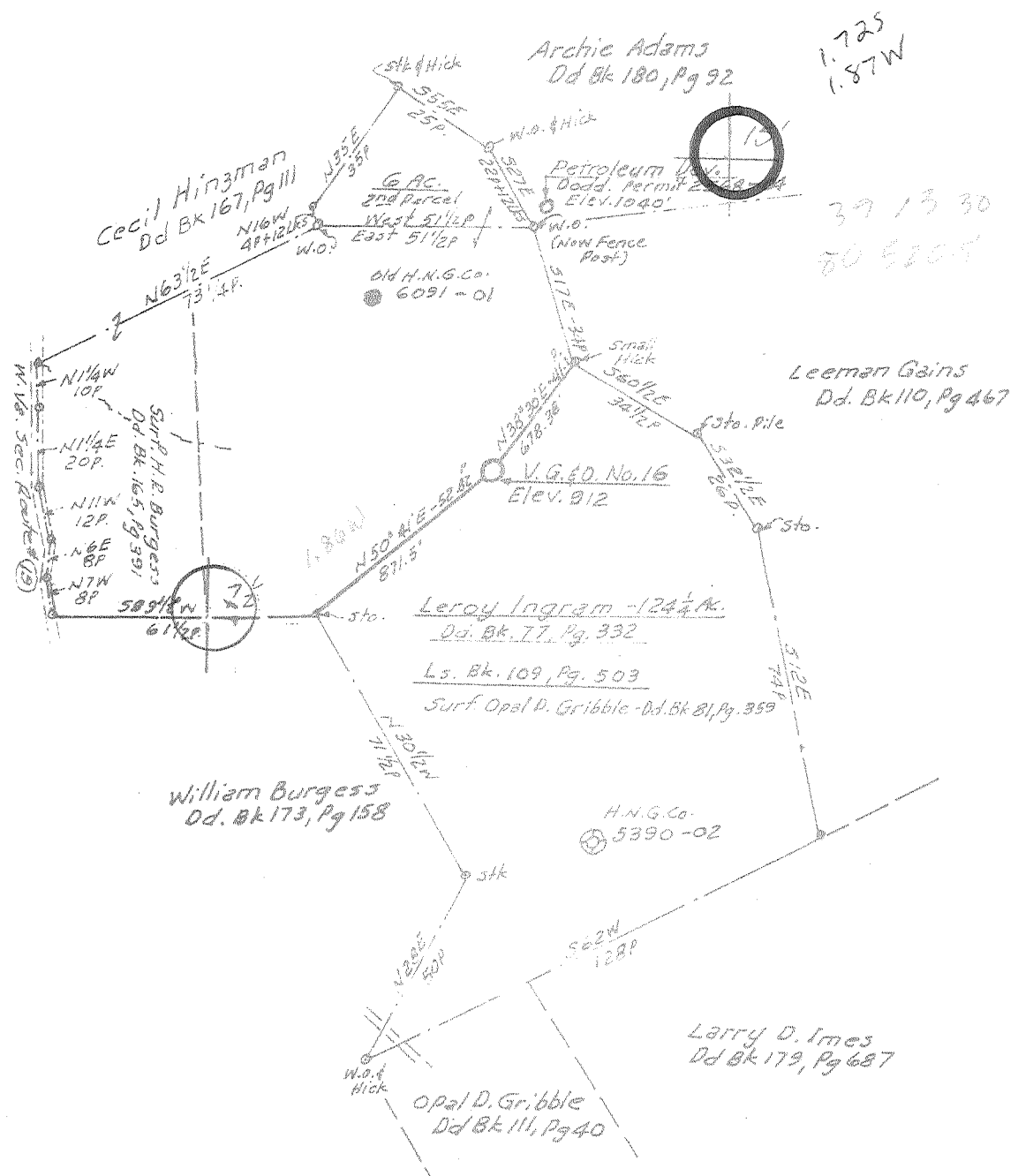


NORTH



1.725  
1.87W  
39 13 30  
70 5205

Minimum Error of Closure 1 Ft. in 200 Feet  
 Source of Elevation Petroleum Dev. - Dodd. Permit # 2568 - Elev. 1040 Ft.  
 "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."  
 Signed: M. E. Murray  
 L. L. S. NO. 7

- New Location
- Drill Deeper
- Abandonment

Well Type oil & Gas shallow production

Company VINSON GAS & OIL Drilling Co. Inc.  
 Address 94 Valley Street, Salem, W. Va.  
 Farm Leroy Ingram  
 Tract Acres 130 1/4 Lease No. \_\_\_\_\_  
 Well (Farm) No. \_\_\_\_\_ Serial No. V.G. #0. No. 16  
 Elevation (Spirit Level) 912 Feet  
 Quadrangle OXFORD 75' HOLBROOK 15' NC  
 County Doddridge District Central  
 L.L.S. M. E. Murray  
 L.L.S. 7  
 Engineer's Registration No. 7  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date May 19, 1980 Scale 1" = 40 poles = 660 Ft.

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

**WELL LOCATION MAP**  
**017-2840**

FILE NO. \_\_\_\_\_

+ 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.

2500 BEREA OCT 17 1980



1) Date: Feb. 22, 1984  
 2) Operator's Well No. Simon P. Bush #1  
 3) API Well No. 47 - 021 - 2840 - FRAC  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil        / Gas X /  
 B (If "Gas", Production X / Underground storage        / Deep        / Shallow X /)
- 5) LOCATION: Elevation: 1085' Watershed: Bloody Run  
 District: Troy County: Gilmer Quadrangle: Holbrook SE
- 6) WELL OPERATOR Key Oil Company 7) DESIGNATED AGENT Dick Rexroad  
 Address P.O. Box 709 Address P.O. Box 709  
Spencer, WV Spencer, WV
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Deo Mace Name Unknown  
 Address Rt. #1 Box 5 Address         
Sandridge, WV
- 10) PROPOSED WELL WORK: Drill        / Drill deeper        / Redrill        / Stimulate XXX /  
 Plug off old formation        / Perforate new formation XXX /  
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Weir
- 12) Estimated depth of completed well, 2213 feet
- 13) Approximate trata depths: Fresh, 100' feet; salt, 400' feet.
- 14) Approximate coal seam depths: NZA Is coal being mined in the area? Yes        / No XXX /

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 FEB 27 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 |                                      |   |
| Conductor             |                |             |                |     |                   |              |                                      | Kinds   |
| Fresh water           | <u>8 7/8</u>   |             |                |     |                   |              | <u>217</u>                           | Cemented to Surface } IN PLACE                      |
| Coal                  |                |             |                |     |                   |              |                                      |   |
| Intermediate          |                |             |                |     |                   |              |                                      | Depths set  |
| Production Tubing     | <u>4 1/2</u>   |             |                |     |                   | <u>2213'</u> | <u>100 SX</u>                        |   |
| Liners                | <u>2 7/8</u>   | <u>j-55</u> | <u>6.5</u>     |     | <u>X</u>          | <u>2100</u>  | <u>0</u>                             | Packer  |
|                       |                |             |                |     |                   |              |                                      | Perforations:<br>Top <u>2160</u> Bottom <u>2195</u> |

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-021-2840-FRAC Date February 27, 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 February 27, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

|       |                  |                 |                   |                  |
|-------|------------------|-----------------|-------------------|------------------|
| Blank | Agent: <u>Lo</u> | Plat: <u>MH</u> | Casing: <u>MH</u> | Fee: <u>1799</u> |
|-------|------------------|-----------------|-------------------|------------------|

Margaret J. Hesse  
 Administrator, Office of Oil and Gas

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

FORM IV-35  
(Obverse)

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

Date 1/6/81, 1981

[08-78]

WELL OPERATOR'S REPORT 4

Operator's  
Well No. Leroy Ingram 16

OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47-017-2840  
State County Perm

WELL TYPE: Oil X / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 912 Watershed: Cabin Run

District: Central County: Doddridge Quadrangle: Oxford

WELL OPERATOR West Virginia Joint Venture #2

DESIGNATED AGENT Thomas J. Fluharty

Address 94 Valley St.

Address 94 Valley St.

Salem, W. Va. 26426

Salem, W. Va. 26426

PERMITTED WORK: Drill X / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON 9/23, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION: Berea

Depth 2500 feet

Depth of completed well, 2510 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh, 110 feet; salt, 1505 feet.

Coal seam depths: none Is coal being mined in the area? no

Work was commenced 12/31, 19 80, and completed 12/10, 19 80

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 |                                      |                   |
| Conductor             | 11-3/4         |       | 42            | X   |                   |              | 50 sacks                             | Kinds             |
| Fresh water           | 8-5/8          |       | 20            |     | X                 | 342.10       | To Surface                           | 80 Bags           |
| Coal                  | none           |       |               |     |                   |              |                                      | Sizes             |
| Intermediate          | none           |       |               |     |                   |              |                                      |                   |
| Production            | 4-1/2          |       | 10.5          | X   |                   | 2510         | 150 sacks                            | Depths set        |
| Tubing                | 2-3/8          |       |               |     | X                 |              |                                      |                   |
| Liners                |                |       |               |     |                   |              |                                      | Perforations:     |
|                       |                |       |               |     |                   |              |                                      | Top Bottom        |
|                       |                |       |               |     |                   |              |                                      | 2019 2027         |
|                       |                |       |               |     |                   |              |                                      | 2037 2057         |
|                       |                |       |               |     |                   |              |                                      | 2233 1/2 2047 1/2 |
|                       |                |       |               |     |                   |              |                                      | 2259 1/2 2267 1/2 |

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DEPT. OF MINES

OPEN FLOW DATA

Producing formation Injun 2037-2057; 2019-27 Pay zone depth 20 & 8 feet

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, 1 Bbl/d

Final open flow, 60 Mcf/d Final open flow, 3 Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 550 psig (surface measurement) after 24 hours shut in

[If applicable due to multiple completion--]

Second producing formation Weir 2233 1/2-47 1/2; 2259 1/2-67 1/2 Pay zone depth 14 & 8 feet

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

Final open flow, 90 Mcf/d Final open flow, 6 Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 550 psig (surface measurement) after 24 hours shut in

150MCF + 9 DBL

FEB 23 1981

FORM IV-35  
(Reverse)  
[08-78]

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

Perforations:  
2019-2027 8 holes  
2037-2057 20 holes  
2233 $\frac{1}{2}$ -47 $\frac{1}{2}$  14 holes  
2259 $\frac{1}{2}$ -67 $\frac{1}{2}$  8 holes

WELL LOG

| FORMATION  | Color | Hard or Soft | +        |             | Remarks<br>Including indication of all fresh and salt water, coal, oil and gas |
|------------|-------|--------------|----------|-------------|--|
|            |       |              | Top Feet | Bottom Feet |  |
| Red Clay   |       |              | 0        | 4           |  |
| R.R.       |       |              | 4        | 14          |  |
| Sand       |       |              | 14       | 37          |  |
| R.R.       |       |              | 37       | 41          |  |
| Sand       |       |              | 41       | 45          |  |
| Sand       |       |              | 45       | 48          |  |
| Shale R.R. |       |              | 48       | 103         |  |
| Sand       |       |              | 103      | 268         | Water 110'   |
| R.R. Shale |       |              | 268      | 276         |  |
| Sand       |       |              | 276      | 300         |  |
| Shale      |       |              | 300      | 327         |  |
| R.R.       |       |              | 327      | 400         |  |
| Sand       |       |              | 400      | 440         |  |
| Shale      |       |              | 440      | 480         |  |
| Sand       |       |              | 480      | 485         |  |
| Shale      |       |              | 485      | 492         |  |
| Sand       |       |              | 492      | 510         |  |
| Shale R.R. |       |              | 510      | 708         |  |
| Sand       |       |              | 708      | 722         |  |
| Shale R.R. |       |              | 722      | 951         | Water 1505'  |
| Sand       |       |              | 951      | 1045        |  |
| Shale      |       |              | 1045     | 1100        |  |
| Sand       |       |              | 1100     | 1135        |  |
| Shale      |       |              | 1135     | 1180        |  |
| Sand       |       |              | 1180     | 1257        |  |
| Shale      |       |              | 1257     | 1471        |  |
| Sand       |       |              | 1471     | 1760        |  |
| Shale      |       |              | 1760     | 1860        |  |
| Sand       |       |              | 1860     | 1900        |  |
| Shale      |       |              | 1900     | 1927        |  |
| Lime Shale |       |              | 1927     | 1968        |  |
| Lime       |       |              | 1968     | 2065        |  |
| Sand       |       |              | 2065     | 2110        |  |
| Shale      |       |              | 2110     | TD          |  |
|            |       |              | TD       | 2510        |  |

(Attach separate sheets to complete as necessary)

West Virginia Joint Venture #2  
Well Operator

By Thomas J. Fluharty

Its Agent *Thomas J. Fluharty*

**NOTE:** Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Hugh Spencer - DBA Spencer Enterprises  
Address Smithburg, W.Va.

GEOLOGICAL TARGET FORMATION, Berea

Estimated depth of completed well, 2,500' feet Rotary  Cable tools   
Approximate water strata depths: Fresh, 300 feet; salt, 1800 feet.  
Approximate coal seam depths: None Is coal being mined in the area? Yes  No

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"            |       |               | <input checked="" type="checkbox"/> |      |                   | <input checked="" type="checkbox"/> | 50                                   | Kinds         |
| Fresh water           | 8"             |       | 20#           | <input checked="" type="checkbox"/> |      | H2O               | <input checked="" type="checkbox"/> | 700                                  | Surf          |
| Coal                  |                |       |               |                                     |      |                   |                                     |                                      | Sizes         |
| Intermediate          |                |       |               |                                     |      |                   |                                     |                                      |               |
| Production            | 4 1/2"         |       | 10.5          | <input checked="" type="checkbox"/> |      |                   | <input checked="" type="checkbox"/> | 100                                  | Permit        |
| Tubing                |                |       |               |                                     |      |                   |                                     |                                      | Depths set    |
| Liners                |                |       |               |                                     |      |                   |                                     |                                      | Perforations: |
|                       |                |       |               |                                     |      |                   |                                     |                                      | Top Bottom    |

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where this permit is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for Drilling. This permit shall expire if operations have not commenced by 6-2-81.

John B. Ruppelle  
Deputy Director - Oil & Gas Division

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

W A I V E R

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

Date:           , 19           

By             
Its

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. V.G. & O. No. 16  
API Well No. 47 017 2840  
State County Permi

WELL TYPE: Oil  Gas   
(If "Gas", Production  Underground storage  Deep  Shallow )

LOCATION: Elevation: 912 Watershed: Cabin Run  
District: Central County: Doddridge Quadrangle: Oxford

WELL OPERATOR Vinson Gas & Oil Drilling Co., Inc.  
Address 94 Valley street  
Salem, W. Va. 26426

DESIGNATED AGENT Thomas J. Fluharty  
Address 94 Valley street  
Salem, W. Va., 26426

OIL & GAS ROYALTY OWNER Leroy Ingram  
Address \_\_\_\_\_

COAL OPERATOR none in Area  
Address \_\_\_\_\_

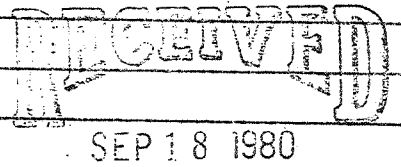
ACREAGE 130 1/4  
SURFACE OWNER Opal D. Gribble  
Address \_\_\_\_\_  
Acreage \_\_\_\_\_

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name \_\_\_\_\_  
Address \_\_\_\_\_



OIL & GAS DIVISION

DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated \_\_\_\_\_, 19\_\_\_\_, to the undersigned well operator from Pennzoil Co.

[If said deed, lease, or other contract has been recorded:]  
Recorded on June 11, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 109 at page 503. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

---planned as shown on the work order on the reverse side hereof.

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

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
161 1/2 WASHINGTON STREET EAST  
CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BOND

Vinson Gas & Oil Drilling Co., Inc.  
Well Operator

By Thomas J. Fluharty